

GRAY TOOLS

- AUTOMOTIVE
- AIRCRAFT
- INDUSTRIAL
- MARINE



O. K. WELDER'S SUPPLIES



Since 1912

GRAY TOOL COMPANY OF CANADA LIMITED
299 ORENDA RD. BRAMALEA, ONTARIO, CANADA

GRAY

GRAY TOOLS . . . A symbol of Canadian achievement favorably known to industry and other users in all lands where Canada's commerce grows.

Gray Hand Tools are produced from the finest steels and alloys backed by creative engineering and time tested designs.

This modern progressive manufacturing industry is entirely owned and operated by Canadians proud of their more than sixty years of achievement in the production and marketing of quality hand tools. You Can't Buy Better Tools.

A quality tool line priced right supported by equitable policies related to distribution and guarantee.



Since 1912

GRAY TOOL COMPANY OF CANADA LIMITED

A Canadian Enterprise Using Products of Canadian Mines and Industries

FOR OVER 60 YEARS



Since 1912



STATEMENTS OF POLICY

Warranty on Gray Tools

- 1. Guarantee** — All Gray Tools are guaranteed against defects in workmanship or material, and any tool failing to live up to this guarantee will be replaced or repaired free of charge.
- 2. Abuse** — Free repair or replacement cannot be made if inspection shows that a tool has been hammered, used with any device for adding extra leverage, ground thinner, changed in design, or broken from use for purposes other than those for which it was designed.
- 3. Non-Guaranteed Tools** • — Because of their nature, certain tools are liable to abuse and are not subject to free replacement. Throughout this catalogue all such tools will be marked by a Black Dot (•).

IMPACT SOCKETS AND ATTACHMENTS ARE NOT GUARANTEED.

4. Normal Wear and Tear —

Ratchets	Adjustable Wrenches
Flex Handles	Screwdrivers
Universal Joints	Punches and Chisels
Wheel Pullers	Buckingham Thread Restorers

Tools of the above types which show signs of wear from long use can usually be reconditioned by replacement of worn parts or regrinding cutting edges. Such tools may be sent in to the jobber or to the factory for repair, and they will be repaired if possible and a service charge made.

- 5. Claims** — If any shipment from our factory has been damaged in transit, a claim must be made immediately upon the carrier.

Tool Boxes, in particular, are very susceptible to damage in transit and should be opened and inspected immediately upon arrival at destination.

WHOLESALE RETURNS

Gray Tools acceptable for return under conditions stated hereunder will be confined to those hand tools listed in this catalogue or subsequent issues thereof. **Such tools will be of current design, finishes and markings.**

At any time during the year wholesalers may submit written information on tools eligible for return and considered surplus in inventory. Written return authorization will be forwarded to the wholesaler subject only to prepaid transportation and other conditions stated herein. Valuation of tools for return will not exceed at current factory cost any amount greater than ten per cent of purchases from us during the previous twelve month period. A handling charge of ten per cent will apply. Factory allowance will be in form of book credit to apply against current or future purchases from us.

Tools that are to be returned must be carefully packed to avoid damage in transit — otherwise an extra twenty per cent may be charged for re-finishing.



1/4" Drive Attachments and Sets



V 25



4216



211



V 26



V 34



SD 14



V 606



MF 6



V 780



V 603



V 760



4217



V 5



V 602



518



001

No.	Description	No.	Description	No.	Description
• 001	Pocket Ignition Screwdriver	MF6	1/4" Flex. Extension	• V34	1/4" Dr. Screwdriver
• 211	Flexible Screwdriver	SD14	1/4" Male Flexible Driver	V602	2" Extension
• 518	Ignition Pliers	V5	16" Speeder	V603	4" Extension
• 4216	3/8" Sq. Female; 1/4" Sq. Male Adaptor	V25	1/4" Reversible Ratchet, 5" Long	V606	6" Extension
4217	1/4" Sq. Female; 3/8" Sq. Male Adaptor	V26	5 1/2" Flex. Handle	V760	Universal Joint
				V780	1/4" Drive Insul. Handle, 6" Long.

Single Hexagon



Double Hexagon



Deep Single Hexagon



Opening	No.	Opening	No.
3/16"	V 6	11/32"	V 11
7/32"	V 7	3/8"	V 12
1/4"	V 8	7/16"	V 14
9/32"	V 9	1/2"	V 16
5/16"	V 10		

Opening	No.
1/4"	V108
9/32"	V109
5/16"	V110
11/32"	V111
3/8"	V112
7/16"	V114
1/2"	V116

Opening	No.
1/4"	VL8
9/32"	VL9
5/16"	VL10
11/32"	VL11
3/8"	VL12
7/16"	VL14
1/2"	VL16

Our very best set, containing most sockets and accessories required by the master mechanic. All tools are made of the finest alloy steels, heat treated and brightly chromed. This set will give a life-time of service. Packed in attractive metal box No. 2285. 11" x 5 1/2" x 1 3/4".

No.	Description
V6	3/16" SH Socket
V7	7/32" " "
V8	1/4" " "
V9	9/32" " "
V10	5/16" " "
V11	11/32" " "
V12	3/8" " "
V14	7/16" " "
V16	1/2" " "
VL8	1/4" Deep SH Socket
VL10	5/16" " " "
VL11	11/32" " " "
VL12	3/8" " " "
VL14	7/16" " " "
V606	6" Extension
V760	Universal Joint

No. VS250 Set Contains 25 pieces 3/16" to 1/2"



No.	Description
V780	1/4" Drive Insulated Handle, 6" Long
E02	Ignition Screwdriver
MF6	1/4" Flex Extension
FG18	Ign. Feeler Gauge
518	Ignition Plier
V25	1/4" Reversible Ratchet, 5" long
V26	5 1/2" Flex Handle
V34	1/4" Dr. Screwdriver
V602	2" Extension

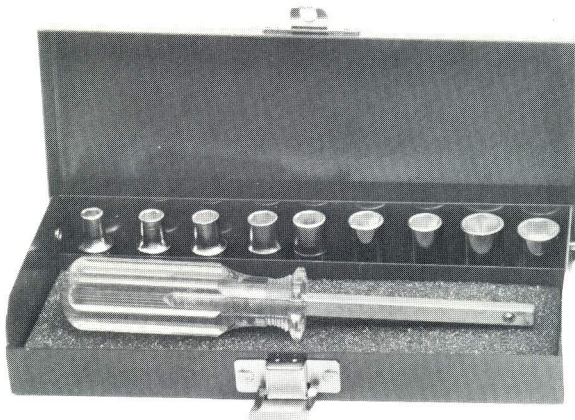
1/4" Drive Socket Sets

EXTRA SMALL SERIES

These midget sockets and attachments are the ultimate in precision design and manufacture. The small head reversible ratchet, tiny handles and extra thin wall lock-on sockets are produced from the finest alloy steels and all are chrome plated. Created for motor tuneup specialists and those who service starting — lighting — ignition — instruments and radio. They will prove a welcome addition to any tool equipment. Each individual piece available separately from open stock.

No. VS 100 Set

Contains 10 Pieces — 3/16" to 1/2"

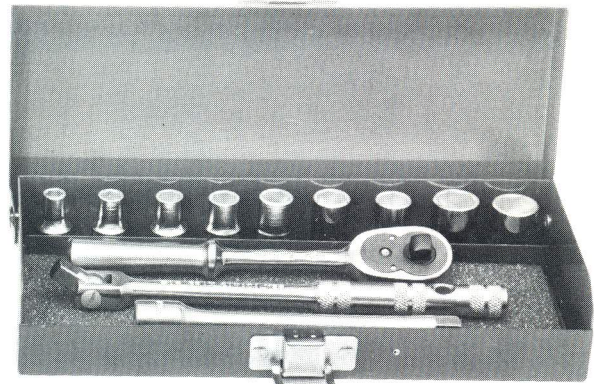


The ideal basic set for ignition and electrical work. Includes nine sockets and a versatile drive handle. All within a handy metal case No. 2281. 7" x 3 1/4" x 1 1/4".

No.	Description	No.	Description
V 6	3/16" S.H. Socket	V 11	1 1/32" " "
V 7	7/32" " "	V 12	3/8" " "
V 8	1/4" " "	V 14	7/16" " "
V 9	9/32" " "	V 16	1/2" S.H. Socket
V 10	5/16" " "	V 780	6" Drive Handle

No. VS 120 Set

Contains 12 Pieces — 3/16" to 1/2"

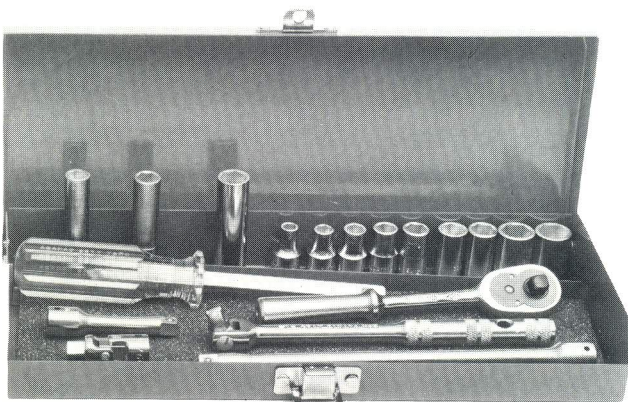


A complete set made from special heat treated alloy steel. Mirror chrome finished for long life. A must for any mechanic. Packed in sturdy metal box No. 2281. 7" x 3 1/4" x 1 1/4".

No.	Description	No.	Description
V 6	3/16" S.H. Socket	V 12	3/8" " "
V 7	7/32" " "	V 14	7/16" " "
V 8	1/4" " "	V 16	1/2" " "
V 9	9/32" " "	V 25	Rev. Ratchet 5"
V 10	5/16" " "	V 26	Flex Handle 5 1/2"
V 11	1 1/32" " "	V 603	4" Extension

No. VS 180 Set

Contains 18 Pieces — 3/16" to 1/2"



This set contains a most complete range. Ratchet, extensions, flex handle, sockets, universal joint and drive handle. A life long set for the professional. Packed neatly in box No. 2282. 9 1/2" x 4" x 1 1/4".

No.	Description	No.	Description
V 6	3/16" S.H. Socket	VL8	1/4" Deep SH Socket
V 7	7/32" " "	VL10	3/16" " " "
V 8	1/4" " "	VL12	3/8" " " "
V 9	9/32" " "	V 25	Rev. Ratchet 5"
V 10	5/16" " "	V 26	Flex Handle 5 1/2"
V 11	1 1/32" " "	V 602	2" Extension
V 12	3/8" " "	V 606	6" Extension
V 14	7/16" " "	V 760	Universal joint
V 16	1/2" " "	V 780	1/4" Drive Insulated Handle, 6"

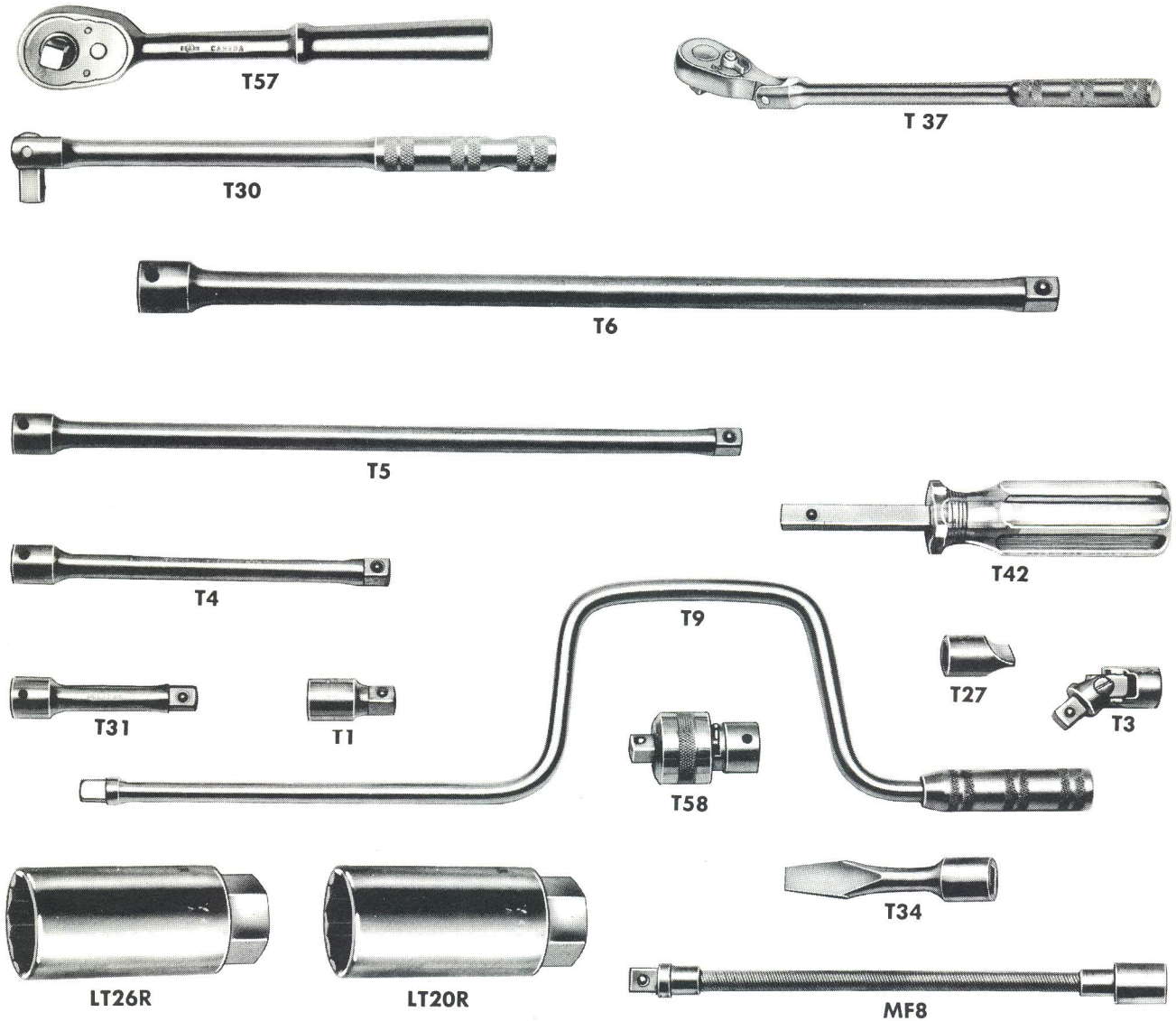


The Finest Name in Tools

Since 1912






3/8" Drive Handles and Attachments

The 3/8" Drive Attachments have become a must for all good mechanics' tool kits. The chrome plated, alloy steel, extra slim handles and attachments, are designed to allow the mechanic to get at the tightest spots on modern motors, aircraft and refrigeration units with ease.

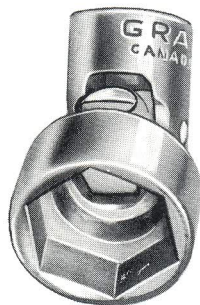


No.	Description	No.	Description	No.	Description
LT 20 R	5/8" Plug Socket	T 4	6" Extension	• T 34	Screw Driver Socket Blade
LT 26 R	Spark Plug Socket 13/16" - 12 pt. extra deep with rubber insert and 3/4" hex on outside at drive end.	T 5	12" "	T 37	Flex Head Ratchet
		T 6	20" "	T 42	6 1/8" Screw Driver Type Handle
		T 9	16 1/4" Speeder	T 57	7 1/2" Reversible Ratchet
MF 8	3/8" Flexible Extension 8"	T 27	Drag Link Skt. .113" x 1/16" blade	T 58	Ratchet Adaptor
T 1	1 1/2" Extension	T 30	9" Flex Handle		
T 3	Universal Joint	T 31	3" Extension		

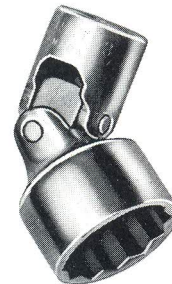
3/8" Drive Sockets

Single Hexagon		Double Hexagon		Double Square		Deep Single Hexagon		Deep Double Hexagon	
									
Open.	No.	Open.	No.	Open.	No.	Open.	No.	Open.	No.
1/4"	TH 8S	1/4"	T 8	1/4"	TS 8	1/4"	T 80	1/4"	LT 8
5/16"	TH 10	5/16"	T 10	5/16"	TS 10	5/16"	T 100	5/16"	LT 10
3/8"	TH 12	3/8"	T 12	3/8"	TS 12	3/8"	T 120	3/8"	LT 12
7/16"	TH 14	7/16"	T 14	7/16"	TS 14	7/16"	T 140	7/16"	LT 14
1/2"	TH 16	1/2"	T 16	1/2"	TS 16	1/2"	T 160	1/2"	LT 16
9/16"	TH 18	9/16"	T 18	9/16"	TS 18	9/16"	T 180	9/16"	LT 18
5/8"	TH 20	19/32"	T 19	5/8"	TS 20	5/8"	T 200	5/8"	LT 20
11/16"	TH 22	5/8"	T 20			11/16"	T 220	11/16"	LT 22
3/4"	TH 24	11/16"	T 22			3/4"	T 240	3/4"	LT 24
13/16"	TH 26	3/4"	T 24			13/16"	T 260	13/16"	LT 26
7/8"	TH 28	13/16"	T 26			7/8"	T 280	7/8"	LT 28
15/16"	TH 30	7/8"	T 28			15/16"	T 300	15/16"	LT 30
		15/16"	T 30 S						

Universal Joint Sockets Positive Positions



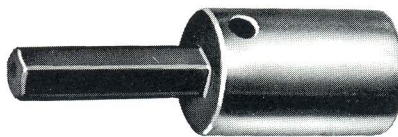
Single Hexagon	Opening	Double Hexagon
TU 120	3/8"	TU 12
TU 140	7/16"	TU 14
TU 160	1/2"	TU 16
TU 180	9/16"	TU 18
TU 200	5/8"	TU 20
TU 220	11/16"	TU 22
TU 240	3/4"	TU 24



Wrenches for Socket Head Screws — 3/8" Drive

These wrenches are made for all the popular sizes of set screws and cap screws. They are strong, easy to use and the bits are replaceable.

No.	Across Flats	Bit Length	Length Overall
•TW 4	1/8"	1 1/4"	2"
•TW 5	5/32"	1 1/4"	2"
•TW 6	3/16"	1 1/4"	2"
•TW 7	7/32"	1 1/4"	2"
•TW 8	1/4"	1 1/4"	2"
•TW 10	5/16"	1 3/8"	2"
•TW 12	3/8"	1 3/8"	2"



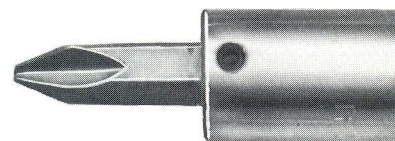
Adaptors

No.	Openings	
	Female	Male
•4206	1/2" Sq.	& 3/8" Sq.
4215	3/8" Sq.	& 1/2" Sq.

Wrenches for Phillips Head Screws — 3/8" Drive

These wrenches are provided for body work and door frames where it is necessary to exert considerable force to break loose or reset a Phillips fastener. Blades retained by means of hexagon set screw. Bits are replaceable.

No.	Phillips Point	Bit Length	Length Overall	Screw Sizes
•TP 1	No. 1	1 1/4"	1 15/16"	No. 4 and Smaller
•TP 2	No. 2	1 1/4"	1 15/16"	No. 5 to No. 9 inc.
•TP 3	No. 3	1 1/4"	1 15/16"	No. 10 to No. 16 inc.
•TP 4	No. 4	1 1/4"	1 15/16"	No. 18 and larger



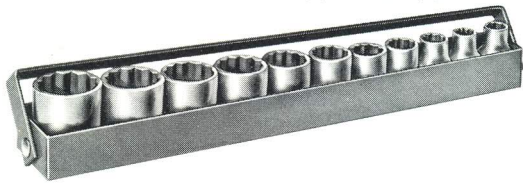
A Tool For Every Need



Since 1912

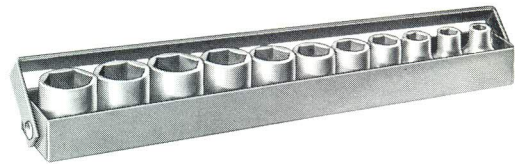
3/8" Drive Socket Trays

T 11 DH — 1/4" to 7/8"



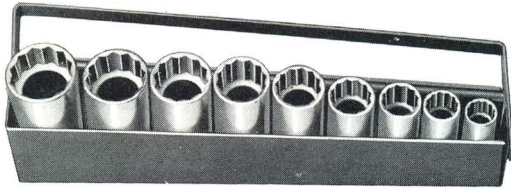
Contains eleven double hexagon regular length sockets. Numbers T 8 - T 28 less T 19 packed in steel tray. No. 1912.

T 11 SH — 1/4" to 7/8"



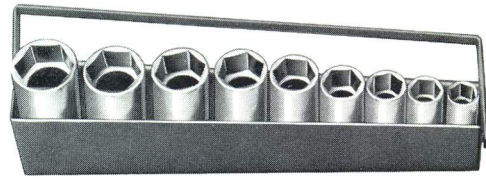
Contains eleven single hexagon regular length sockets. Numbers TH 8 S - TH 28 packed in steel tray No. 1912.

LT 9 DH — 3/8" to 7/8"



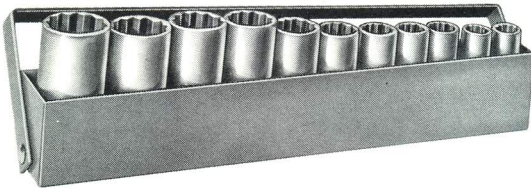
Contains nine double hexagon extra deep sockets. Numbers LT 12 - LT 28 packed in steel tray. No. 1915.

LT 9 SH — 3/8" to 7/8"



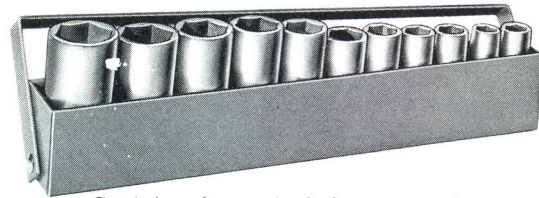
Contains nine single hexagon extra deep sockets. Numbers T 120 - T 280 packed in steel tray. No. 1915.

LT 11 DH — 1/4" to 7/8"



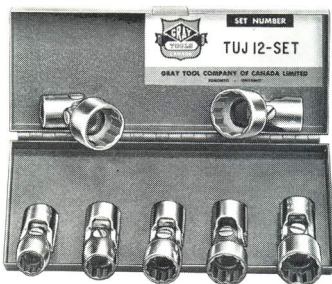
Contains eleven double hexagon extra deep sockets. Numbers LT 8 - LT 28 packed in steel tray. No. 1911.

LT 11 SH — 1/4" to 7/8"



Contains eleven single hexagon extra deep sockets. Numbers T 80 - T 280 packed in steel tray. No. 1911.

TUJ 12 Set — 3/8" to 3/4"



Contains seven double hexagon regular length Flex sockets. Numbers TU 12 - TU 24 packed in steel box. No. 2281.

TUJ 6 Set — 3/8" to 3/4"

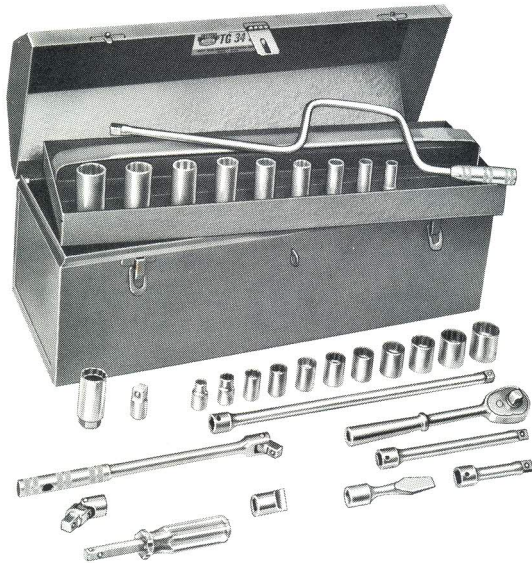


Contains seven single hexagon regular length Flex sockets. Numbers TU 120 - TU 240 packed in steel box. No. 2281.

3/8" Drive Socket Sets

TG 34 Set

Contains 34 Pieces — 5/16" to 15/16"



TG 34 Set

Here is a set containing the complete line of standard double hexagon sockets from 5/16" to 7/8", also the complete line of deep double hexagon sockets from 3/8" to 7/8", and thirteen attachments. All tools are made of selected alloy steel, chrome plated and polished. Packed in box No. 2203. Size 19" x 7" x 7 1/2".

The TG 34 Set includes one each of the following

Size	No.	Description	Size	No.	Description
5/16"	T 10	D.H. Socket	15/16"	T 30S	D.H. Socket
3/8"	T 12	" "	3/8"	LT 12	Deep D.H. Socket
7/16"	T 14	" "	7/16"	LT 14	" " "
1/2"	T 16	" "	1/2"	LT 16	" " "
9/16"	T 18	" "	9/16"	LT 18	" " "
19/32"	T 19	" "	5/8"	LT 20	" " "
5/8"	T 20	" "	11/16"	LT 22	" " "
11/16"	T 22	" "	3/4"	LT 24	" " "
3/4"	T 24	" "	13/16"	LT 26	" " "
13/16"	T 26	" "	7/8"	LT 28	" " "
7/8"	T 28	" "	13/16"	LT 26R	Spark Plug Socket

and the following attachments

No.	Description	No.	Description
T 3	Universal Joint	TP 2	Hexhead Socket
T 31	3" Extension	T 34	Screw Driver Socket
T 4	6" "	T 42	6 1/8" Screw Driver Type Handle
T 5	12" "	T 57	7 1/2" Reversible Ratchet
T 9	16 1/4" Speeder	4215	3/8" x 1/2" adaptor
T 27	Drag Link Socket		
T 30	9" Flex Handle		

TG 27 Set

Contains 27 Pieces — 1/4" to 7/8"



TG 27 Set

This set contains the most complete range of single hex regular and deep sockets along with all necessary attachments. Packed in box No. 2201. Size 20" x 6" x 3 1/2".

The TG 27 Set includes one each of the following

Size	No.	Description	Size	No.	Description
1/4"	TH 8S	S.H. Socket	3/8"	T 120	Deep S.H. Socket
5/16"	TH 10	" "	7/16"	T 140	" " "
3/8"	TH 12	" "	1/2"	T 160	" " "
7/16"	TH 14	" "	9/16"	T 180	" " "
1/2"	TH 16	" "	5/8"	T 200	" " "
9/16"	TH 18	" "	11/16"	T 220	" " "
5/8"	TH 20	" "	3/4"	T 240	" " "
11/16"	TH 22	" "	13/16"	T 260	" " "
3/4"	TH 24	" "	7/8"	T 280	" " "
			13/16"	LT 26R	Spark Plug Socket

and the following attachments

No.	Description	No.	Description
T 3	Universal Joint	T 9	16 1/4" Speeder
T 31	3" Extension	T 30	9" Flex Handle
T 4	6" "	T 34	Screw Driver Socket
T 5	12" "	T 57	7 1/2" Reversible Ratchet

3/8" Drive Socket Sets

TG 21 Set

Contains 21 Pieces — 1/4" to 1 5/16"

This set contains the popular straight wall sockets with double hexagon openings. Designed especially for those who want quality with a minimum investment. Contains 21 pieces each selected for the large number of uses to which it may be put. All pieces are made of the finest alloy steel, chrome plated. Packed in box No. 2201. Size 20" x 6" x 3 1/2".

The TG 21 Set includes one each of the following

Size	No.	Description	Size	No.	Description
1/4"	T 8	D.H. Socket	5/8"	T 20	D.H. Socket
5/16"	T 10	" "	1 1/16"	T 22	" "
3/8"	T 12	" "	3/4"	T 24	" "
7/16"	T 14	" "	13/16"	T 26	" "
1/2"	T 16	" "	7/8"	T 28	" "
9/16"	T 18	" "	1 3/16"	T 30S	" "
1 1/32"	T 19	" "			

and the following attachments

No.	Description	No.	Description
T 3	Universal Joint	T 27	Drag Link Socket
T 31	3" Extension	T 30	9" Flex Handle
T 4	6" "	T 57	7 1/2" Reversible Ratchet
T 5	12" "	LT 26 R	1 3/16" Plug Socket
T 9	16 1/4" Speeder		

TG 15 Set

Contains 15 Pieces — 5/16" to 7/8"

This TG 15-Set includes the 8 most popular 3/8" drive Single Hexagon Sockets together with two extensions, Universal Joint, Reversible Ratchet, Sliding "T" Handle, Flexible Handle and Cross Bar. This selection is ideally suited to aviation and light automotive service work. Packed in box No. 2285. Size 11" x 5 1/2" x 1 3/4".

The TG 15 Set includes one each of the following

Size	No.	Description	No.	Description
5/16"	TH 10	S.H. Socket	T 3	Universal Joint
3/8"	TH 12	" "	T 31	3" Extension
7/16"	TH 14	" "	T 4	6" "
1/2"	TH 16	" "	T 30	9" Flex Handle
9/16"	TH 18	" "	T 57	7 1/2" Reversible Ratchet
5/8"	TH 20	" "		
1 1/16"	TH 22	" "		
3/4"	TH 24	" "		
13/16"	TH 26	" "		
7/8"	TH 28	" "		

TG 10 Set

Contains 10 Pieces — 3/8" to 3/4"

The TG 10 is an excellent basic kit and is the ideal beginning toward a complete 3/8" drive socket set. It features high Gray quality. Packed in box No. 2282. Size 9 1/2" x 4" x 1 1/4".

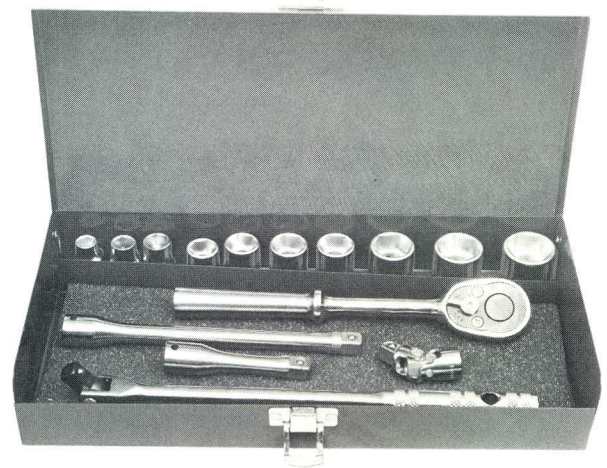
The TG 10 Set includes one each of the following

Size	No.	Description	Size	No.	Description
3/8"	T 12	D.H. Socket	1 1/16"	T 22	" "
7/16"	T 14	" "	3/4"	T 24	" "
1/2"	T 16	" "	3"	T 31	Extension
9/16"	T 18	" "	7 1/2"	T 57	Reversible Ratchet
5/8"	T 20	" "	9"	T 30	Flex Handle

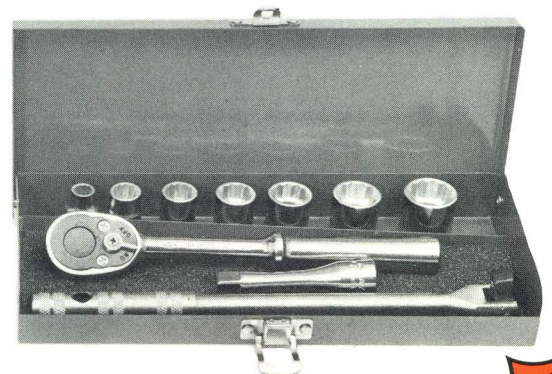
TG 21 Set



TG 15 Set



TG 10 Set

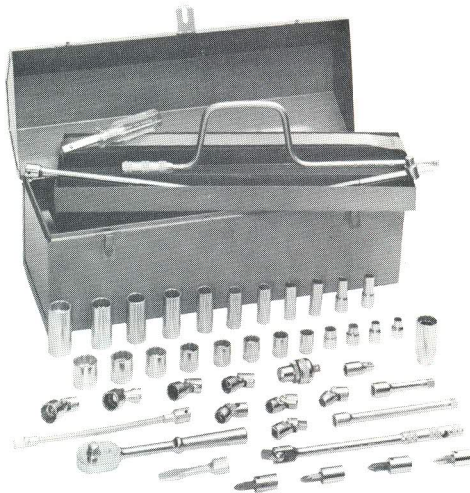


3/8" Drive Socket Set and Displays

Size	No.	Description	Size	No.	Description
1/4"	T 8	D.H. Socket	3/8"	TU 12	Flex Socket
5/16"	T 10	" "	7/16"	TU 14	" "
3/8"	T 12	" "	1/2"	TU 16	" "
7/16"	T 14	" "	9/16"	TU 18	" "
1/2"	T 16	" "	5/8"	TU 20	" "
9/16"	T 18	" "	11/16"	TU 22	" "
19/32"	T 19	" "	3/4"	TU 24	" "
5/8"	T 20	" "			
11/16"	T 22	" "	13/16"	LT 26R	Spark Plug Socket
3/4"	T 24	" "	T 1	1 1/2" Extension	
13/16"	T 26	" "	T 3	Universal Joint	
7/8"	T 28	" "	T 31	3" Extension	
1/4"	LT 8	Deep D.H. Socket	T 4	6" "	
5/16"	LT 10	" " "	T 5	12" "	
3/8"	LT 12	" " "	T 9	16 1/4" Speeder	
7/16"	LT 14	" " "	T 30	9" Flex Handle	
1/2"	LT 16	" " "	T 34	Screw Driver Socket	
9/16"	LT 18	" " "	T 30S	1 3/16" D.H. Socket	
5/8"	LT 20	" " "			
11/16"	LT 22	" " "	T 42	6 1/8" Screw Driver Type Handle	
3/4"	LT 24	" " "	T 57	7 1/2" Reversible Ratchet	
13/16"	LT 26	" " "	T 58	Ratchet Adaptor	
7/8"	LT 28	" " "	MF 8	Flex extension	
	TP 1	#1 Phillips			
	TP 2	#2 "			
	TP 3	#3 "			
	TP 4	#4 "			

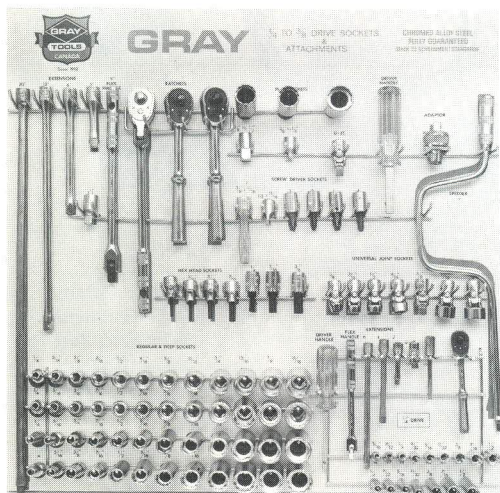
TG 48 Set

Contains 48 pieces — 1/4" to 1 3/16".
packed in box No. 2203.
Size 19" x 7" x 7 1/2".



The Mechanics Tool Centre — 1/4" & 3/8" Drive Sockets & Attachments — A neat and compact 2' x 2' — Each tool is outlined and marked — Durable mar-proof white epoxy painted

WR 50 AUTOMOTIVE DISPLAY BOARD



Single Hexagon Sockets

TH8S—1/4"
TH10—3/8"
TH12—3/8"
TH14—3/8"
TH16—1/2"
TH18—3/8"
TH20—3/8"
TH22—3/16"
TH24—3/4"
TH26—3/8"
TH28—3/8"
TH30—3/8"

Double Hexagon Sockets

T8—1/4"
T10—3/8"
T12—3/8"
T14—3/8"
T16—1/2"
T18—3/8"
T20—3/8"
T22—1 1/8"
T24—3/4"
T26—1 1/8"
T28—3/8"
T30S—1 3/16"

Deep Single Hexagon Sockets

T80—1/2"
T100—3/8"
T120—3/8"
T140—3/8"
T160—1/2"
T180—3/8"
T200—3/8"
T220—1 1/8"
T240—3/4"
T260—1 1/8"
T280—3/8"
T300—1 3/16"

Deep Double Hexagon Sockets

LT8—1/4"
LT10—3/8"
LT12—3/8"
LT14—3/8"
LT16—1/2"
LT18—3/8"
LT20—3/8"
LT22—1 1/8"
LT24—3/4"
LT26—1 1/8"
LT28—3/8"
LT30—1 3/16"

Hex Head Sockets

TW4—1/4"
TW5—3/8"
TW6—3/8"
TW7—3/8"
TW8—1/2"
TW10—3/8"
TW12—3/8"
TW12—3/8"

Universal Joint Sockets (Single Hexagon)

TU120—3/8"
TU140—3/8"
TU160—1/2"
TU180—3/8"
TU200—3/8"
TU220—1 1/8"
TU240—3/4"

Extensions

T1—1 1/2"
T3—3"
T4—6"
T5—12"
T6—20"
T9—16 1/4"

Screwdriver Sockets

Regular
T34—3/8" x 1/8"
T27—113 x 1/8"
T217R—1"

Flex & Screw Driver Handles

T30—9" Flex Handle
T42—6 1/8" Screwdriver Handle
Universal Joint
T3—U-Jt.
Ratchet Adaptor
T58—Adaptor
Adaptors
4216—3/8" to 1/4"
4215—3/8" to 1/2"
Patches
T57—Rev. Ratchet (two)
T37—Flex. Ratchet

1/4" Drive Single Hexagon Sockets

V6—3/8"
V7—3/8"
V8—1/4"
V9—3/8"
V10—3/8"
V11—1/2"
V12—3/8"
V14—3/8"
V16—1/2"

Driver Handles

V26—Flex. Handle
V780—Screwdriver Handle
Universal Joint
V760—U.Jt.
Deep Single Hexagon Sockets
VL8—1/2"
VL9—3/8"
VL10—3/8"
VL11—3/8"
VL12—3/8"
VL14—3/8"
VL16—1/2"

Extensions

V602—2"
V603—4"
V606—6"
Screwdriver Sockets
V34—Screwdriver
Ratchet
V25—1/4" Ratchet

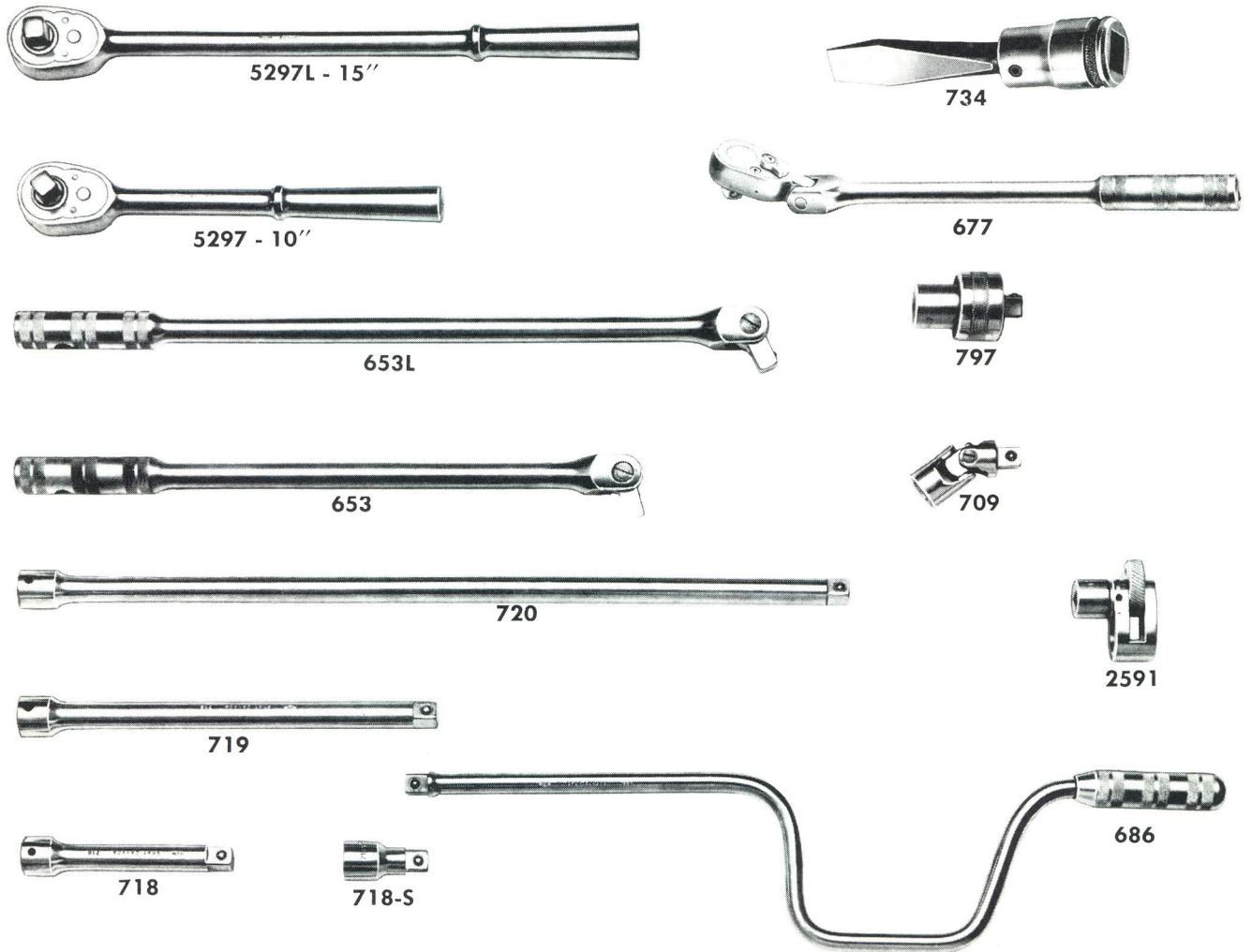
For Regular Repairs



1/2" Drive Attachments

These Handles and Attachments are forged slimmer and lighter for your convenience, due to the use of the finest alloy steel, scientifically heat treated to assure maximum strength. These Gray Tool attachments are highly polished and heavily chrome plated.

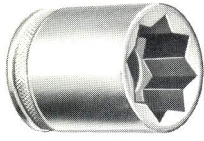
HANDLES AND ATTACHMENTS



No.	Description	No.	Description	No.	Description
653	15" Flex Handle	709	Universal Joint	5297	10" Reversible Ratchet
653L	18" " "	718S	2" Forged Extension	5297L	15" Reversible Ratchet
686	19 1/4" Speeder Rev. Grip	718	5" " "	677	14 1/2" Flex Head Ratchet
797	1/2" Drive Ratchet Adaptor	719	10" " "	734	Screw Driver Socket
		720	20" " "	2591	Stud Remv. (5/16" to 5/8")

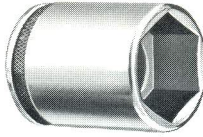
1/2" Square Drive Sockets

Double Square



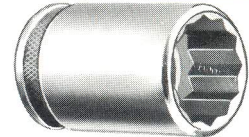
Opening	Number
3/8"	D 406 S
7/16"	D 407 S
1/2"	D 408 S
9/16"	D 409 S
5/8"	D 410 S
11/16"	D 411 S
3/4"	D 412 S
7/8"	D 414 S
1"	D 432 S

Single Hexagon



Opening	Number
3/8"	406
7/16"	407
1/2"	408
9/16"	409
5/8"	410
11/16"	411
3/4"	412
13/16"	413
7/8"	414
15/16"	415
1"	432
1 1/16"	433
1 1/8"	434
1 3/16"	435
1 1/4"	436
1 5/16"	437

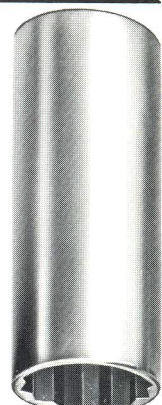
Double Hexagon



Opening	Number
3/8"	1406
7/16"	1407
1/2"	1408
9/16"	1409
19/32"	1419
5/8"	1410
21/32"	1421
11/16"	1411
3/4"	1412
25/32"	1425
13/16"	1413
7/8"	1414
15/16"	1415
31/32"	1431
1"	1432
1 1/16"	1433
1 1/8"	1434
1 3/16"	1435
1 1/4"	1436
1 5/16"	1437



Single Hex Socket Number	Opening	Length	Opening	Double Hex Socket Number
LDS16	1/2"	3 1/4"	1/2"	LD16
LDS18	9/16"	3 1/4"	9/16"	LD18
LDS20	5/8"	3 1/4"	5/8"	LD20
LDS22	11/16"	3 1/4"	11/16"	LD22
LDS24	3/4"	3 1/4"	3/4"	LD24
LDS26	13/16"	3 1/4"	13/16"	LD26
LDS28	7/8"	3 1/4"	7/8"	LD28
LDS30	15/16"	3 1/4"	15/16"	LD30
LDS32	1"	3 1/4"	1"	LD32
LDS34	1 1/16"	3 1/4"	1 1/16"	LD34
LDS36	1 1/8"	3 1/4"	1 1/8"	LD36
LDS38	1 3/16"	3 1/4"	1 3/16"	LD38
LDS40	1 1/4"	3 1/4"	1 1/4"	LD40



Wrenches for Socket Head Screws 1/2" Drive



No.	Across Flats	Bit Length	Length Overall
DW12L	3/8"	3"	4"
DW16L	1/2"	3 1/8"	4"
DW18L	9/16"	3 1/8"	4"
DW20L	5/8"	3 1/8"	4"

LD 26 R — 13/16"



Spark plug socket with rubber insert ring.

DRAG LINK SOCKETS

Socket Number	Width of Blade	Thickness of Blade
404	3/4"	.109
405	15/16"	.150
4002	1 3/16"	.150



ADAPTORS

No.	Female Sq.	Male Sq.
• 4206	1/2" Sq.	3/8" Sq.
• 4209	5/8" Sq.	1/2" Sq.
4215	3/8" Sq.	1/2" Sq.
4298	1/2" Sq.	3/4" Sq.
• 4299	3/4" Sq.	1/2" Sq.

For Regular Repairs



Since 1912

1/2" Drive Socket Trays

SW 15 T — 3/8" to 1 1/4"



Contains 15 regular length double hexagon sockets. Numbers 1406 - 1436 less 1419, 1421, 1425, 1431, packed in steel tray, No. 1913.

SW 14 T — 3/8" to 1 1/4"



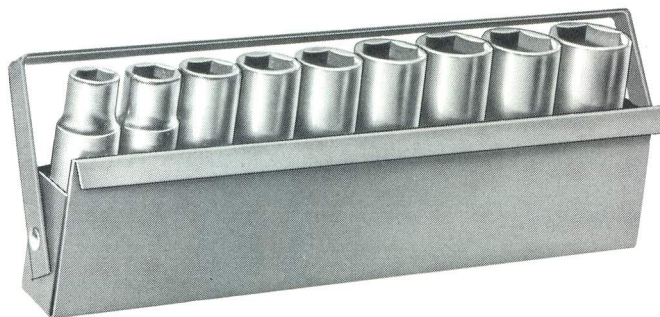
Contains 14 regular length single hexagon sockets. Numbers 406 - 436, less 433, packed in steel tray, No. 1919.

LD 10 Set — 1/2" to 1 1/8"



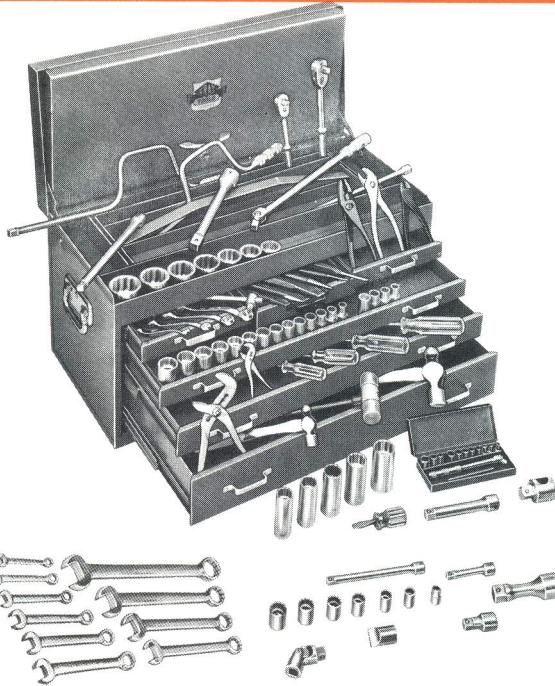
Contains ten extra deep double hexagon sockets. Numbers LD 16 - LD 36 less LD 34, packed in steel tray, No. 1916.

LDS 9 Set — 1/2" to 1"



Contains nine extra deep single hexagon sockets. Numbers LDS 16 - LDS 32, packed in steel tray, No. 1914.

Master Set



MS 103 Set—Complete

Contains 103 Pieces

This Master Set **MS 103** contains the finest and most complete set of Gray Tools ever assembled in one kit. 103 pieces — including one of almost every description to do practically any job encountered. Complete sets of sockets and attachments, box wrenches, and combination wrenches, pliers, hammers, punches, chisels and screw drivers — all are included. The complete assortment is packed in a massive six-drawer metal chest finished in red. It has strong carrying handles and is equipped with a barrel type lock with key. Chest measures 26" x 12" x 14". No. 2250.

COMPLETE CONTENTS LISTED BELOW

1/4" Sq. Drive	
No.	Description
V 6	3/16" S.H. Socket
V 7	7/32" " "
V 8	1/4" " "
V 9	9/32" " "
V 10	5/16" " "
V 11	11/32" " "
V 12	3/8" " "
V 14	7/16" " "
V 16	1/2" " "
V 26	Flex. Handle 5 1/2" L.
4216	3/8"-1/4" Adaptor

3/8" Sq. Drive	
No.	Description
T 10	5/16" D.H. Socket
T 12	3/8" " "
T 14	7/16" " "
T 16	1/2" " "
T 18	9/16" " "
T 20	5/8" " "
T 22	11/16" " "
T 24	3/4" " "
T 26	13/16" " "
T 31	Extension 3" L.
T 4	" 6" L.
T 5	" 12" L.
T 9	Speeder 16 1/4" L.
T 57	Rev. Ratchet 7 1/2" L.

1/2" Sq. Drive	
No.	Description
1406	3/8" D.H. Socket
1407	7/16" " "
1408	1/2" " "
1409	9/16" " "
1410	5/8" " "
1411	11/16" " "
1412	3/4" " "
1413	13/16" " "
1414	7/8" " "
1415	15/16" " "

1/2" Sq. Drive	
No.	Description
1432	1" D.H. Socket
1433	1 1/16" " "
1434	1 1/8" " "
1436	1 1/4" " "
406	3/8" S.H. Socket
407	7/16" " "
408	1/2" " "
409	9/16" " "
410	5/8" " "
412	3/4" " "
413	13/16" " "
405	Drag Link Socket
LD 26	1 3/16" Extra Deep Socket
LD 28	7/8" " " "
LD 30	15/16" " " "
LD 32	1" " " "
LD 36	1 1/8" " " "
653	Flex. Handle 15" L.
686	Speeder 19 1/4" L.
718 S	Extension 2" L.
718	" 5" L.
719	" 10" L.
709	Universal Joint
5297	Rev. Ratchet 10" L.

3/4" Sq. Drive	
No.	Description
HD 34	1 1/16" D.H. Socket
HD 36	1 1/8" " "
HD 40	1 1/4" " "
HD 44	1 3/8" " "
HD 46	1 7/16" " "
HD 48	1 1/2" " "
HD 52	1 5/8" " "
4255	Handle
86	Head
88 S	Extension 4" L.
88	" 8" L.

Combination Wrenches

No.	Openings	Length
3112	3/8"	5"
3114	7/16"	5 3/8"
3116	1/2"	6"
3118	9/16"	6 3/4"
3120	5/8"	7 3/4"
3122	11/16"	8 5/8"
3124	3/4"	9 1/2"
3126	13/16"	10 1/2"
3128	7/8"	11"
3130	15/16"	13 1/2"
3132	1"	13 1/2"

Box Wrenches

2840	3/8" & 7/16"
2843	1/2" & 9/16"
2846	5/8" & 11/16"
2849	3/4" & 25/32"

Chisels

C 2	Flat 1/2" x 5 1/2"
C 3	" 3/8" x 6 1/4"
C 4	" 3/4" x 6 1/2"

Punches

C 22	Solid 3/32" Pt. x 6 1/4" L.
C 28	Pin 1/8" Pt. x 5 1/4" L.
C 30	" 1/4" Pt. x 6 7/8" L.

Screw Drivers

04	4" Rd. Shank 7 1/2" L.
06	6" " " 10 1/4" L.
08	8" " " 12 1/2" L.
006	6" " Electricians

Pliers

B 17	Diagonal 6" L.
258	Water Pump 9 1/2" L.
B 10	Combination 8" L.
518	Ignition Type 5" L.
522	Battery Type 8" L.

Hammers

212 G	1 lb. Ball Pein
212 K	4 oz. Ball Pein
PH 15	1/2 lb. Soft Face



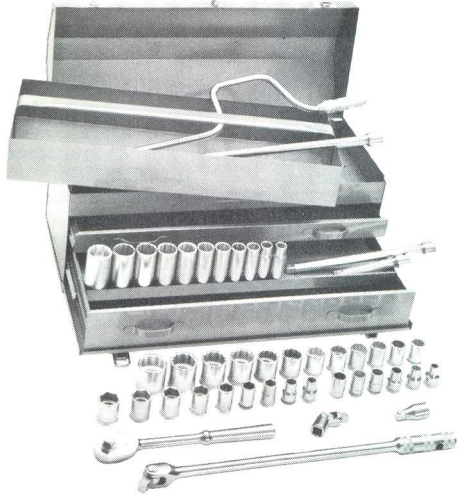
You Can't Buy Better Tools

Since 1912

Master 1/2" Drive Sets

SW 47 Set

Contains 47 Pieces 3/8" to 1 1/4"

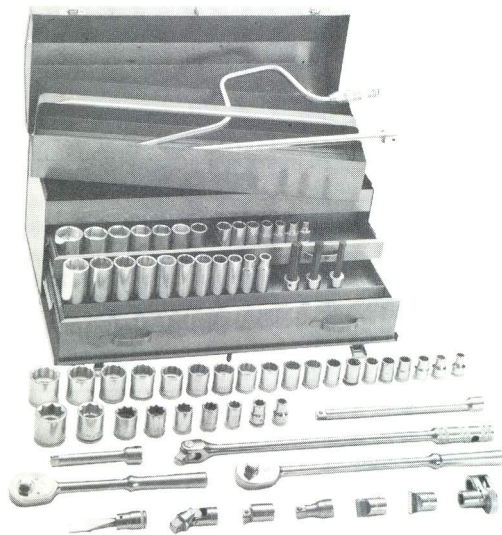


A good range of 1/2 inch drive sockets and attachments, packed in box. No. 2221. Size 21" x 8 1/2" x 9 3/4".

Number	Opening	Description	Number	Opening	Description
1406	3/8"	D.H. Socket	LD16	1/2"	Deep D.H. Socket
1407	7/16"	" "	LD18	9/16"	" " "
1408	1/2"	" "	LD20	5/8"	" " "
1409	9/16"	" "	LD22	11/16"	" " "
1419	19/32"	" "	LD24	3/4"	" " "
1410	5/8"	" "	LD26	13/16"	" " "
1421	21/32"	" "	LD28	7/8"	" " "
1411	11/16"	" "	LD30	15/16"	" " "
1412	3/4"	" "	LD32	1"	" " "
1425	25/32"	" "	LD34	1 1/16"	" " "
1413	13/16"	" "	LD36	1 1/8"	" " "
1414	7/8"	" "	406	3/8"	Single Hex Socket
1415	15/16"	" "	407	7/16"	" " "
1432	1"	" "	408	1/2"	" " "
1433	1 1/16"	" "	409	9/16"	" " "
1434	1 1/8"	" "	410	5/8"	" " "
1435	1 3/16"	" "	411	11/16"	" " "
1436	1 1/4"	" "	412	3/4"	" " "
			413	13/16"	" " "
			414	7/8"	" " "
709		Universal Joint	415	15/16"	" " "
718S		2" Forged Extension	5297	10"	Reversible Ratchet
718		5" " "	686	19"	Speeder Rv. Grip
719		10" " "	653L	18"	Flex Handle
720		20" " "			

SW 70 Set

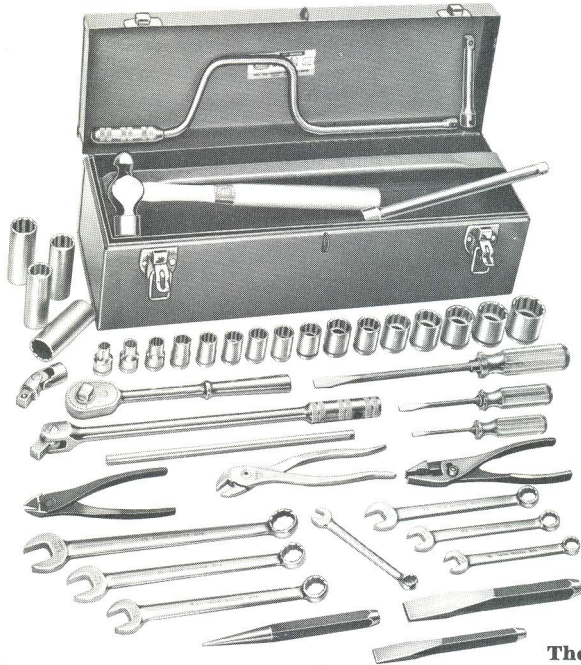
Contains 70 Pieces 3/8" to 1 1/4"



The most complete set of 1/2 inch drive sockets and attachments for the mechanic who is able to do any job. Set packed in box, No. 2221. Size 21" x 8 1/2" x 9 3/4".

Number	Opening	Description	Number	Opening	Description
1406	3/8"	D.H. Socket	406	3/8"	Single Hex Socket
1407	7/16"	" "	407	7/16"	" " "
1408	1/2"	" "	408	1/2"	" " "
1409	9/16"	" "	409	9/16"	" " "
1419	19/32"	" "	410	5/8"	" " "
1410	5/8"	" "	411	11/16"	" " "
1421	21/32"	" "	412	3/4"	" " "
1411	11/16"	" "	413	13/16"	" " "
1412	3/4"	" "	414	7/8"	" " "
1425	25/32"	" "	415	15/16"	" " "
1413	13/16"	" "	432	1"	" " "
1414	7/8"	" "	433	1 1/16"	" " "
1415	15/16"	" "	434	1 1/8"	" " "
1431	31/32"	" "	436	1 1/4"	" " "
1432	1"	" "	LD16	1/2"	Deep D.H. Socket
1433	1 1/16"	" "	LD18	9/16"	" " "
1434	1 1/8"	" "	LD20	5/8"	" " "
1435	1 3/16"	" "	LD22	11/16"	" " "
1436	1 1/4"	" "	LD24	3/4"	" " "
			LD26	13/16"	" " "
			LD28	7/8"	" " "
			LD30	15/16"	" " "
			LD32	1"	" " "
			LD34	1 1/16"	" " "
			LD36	1 1/8"	" " "
			DW12L	3/8"	Allen Type Wrench
			DW16L	1/2"	" " "
			DW18L	9/16"	" " "
					Drag Link Socket
					.150
4206		Adaptor	405	15/16"	.150
709		Universal Joint	4002	13/16"	.150
718S		2" Forged Extension	653L	18"	Flex Handle
718		5" " "	686	19"	Speeder Rv. Grip
719		10" " "	734	1/2"	Dr. Screw Driver
720		20" " "	5297	10"	Reversible Ratchet
2591		Stud Remv. (3/16" to 5/8")	5297L	15"	Reversible Ratchet

Standard Series 1/2" Drive Sets



SW 44 Apprentice Combination Set

Contains 44 Pieces — 3/8" to 1 1/4"

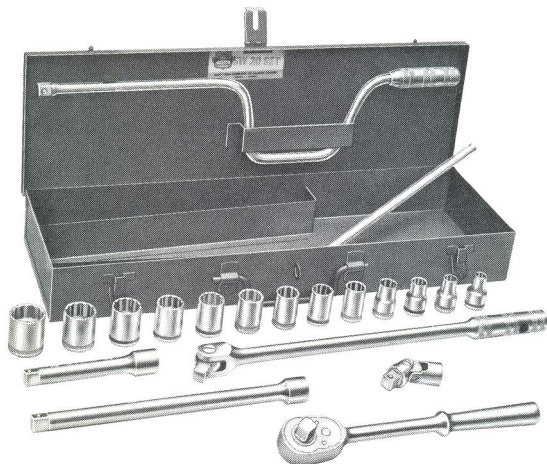
Here is a set for the mechanic starting out, containing an assortment of 44 pieces including 1/2" square drive sockets, handles and attachments, pliers, screwdrivers and other miscellaneous tools for which the greatest everyday need will be found. It is inexpensive, yet every piece is of the highest quality. The contents were carefully selected to enable the handling of the greatest variety of repair jobs with the minimum number of tools. The large roomy box measures 20 7/8" x 7" x 6 7/8" and has ample room for the addition of more tools from time to time. It is equipped with a carrying handle. **Box No. 2219.**

The SW 44 Set includes one each of the following

No.	Description	No.	Description	Size	No.	Description	Size	No.	Description
003	3" Screwdriver	686	19 1/4" Speeder	3/8"	1406	D.H. Sock.	7/8"	1414	D.H. Sock.
04	4" "	709	Universal Joint	7/16"	1407	" "	15/16"	1415	" "
08	8" "	718	5" Extension	1/2"	1408	" "	1"	1432	" "
B 17	Diagonal Plier	719	10" Extension	9/16"	1409	" "	1 1/16"	1433	" "
B 29	Combination Plier	5297	10" Reversible Ratchet	1 1/32"	1419	" "	1 1/8"	1434	" "
C 3	Chisel Flat 5/8" Cut	3114	7/16" Tu-Type Wrench	5/8"	1410	" "	1 1/4"	1436	" "
C 5	Chisel Flat 7/8" Cut	3116	1/2" " "	2 1/32"	1421	" "	1 3/16"	LD26	Deep Sock.
C 23	Punch 1/8" Point	3118	9/16" " "	1 1/16"	1411	" "	7/8"	LD28	" "
212 G	B. P. Hammer 1 lb.	3120	5/8" " "	3/4"	1412	" "	15/16"	LD30	" "
522	Battery Plier	3122	1 1/16" " "	1 1/16"	1413	" "	1"	LD32	" "
653	15" Flex. Handle	3124	3/4" " "						
LD 26R	1 3/16" Plug Socket	3128	7/8" " "						

SW 20 Set

Contains 20 Pieces — 3/8" to 1"



This SW 20 set has thirteen straight wall double hexagon sockets and an assortment of the most desirable attachments. Packed in attractive metal box measuring 20" x 6" x 3 1/2". All pieces are of high quality alloy steel heavily chrome plated. It makes an ideal set for use either in the shop or on the job. **Box No. 2201.**

Contents of SW 20

Size	No.	Size	No.
3/8"	1406	3/4"	1412
7/16"	1407	13/16"	1413
1/2"	1408	25/32"	1425
9/16"	1409	7/8"	1414
5/8"	1410	15/16"	1415
2 1/32"	1421	1"	1432
1 1/16"	1411		

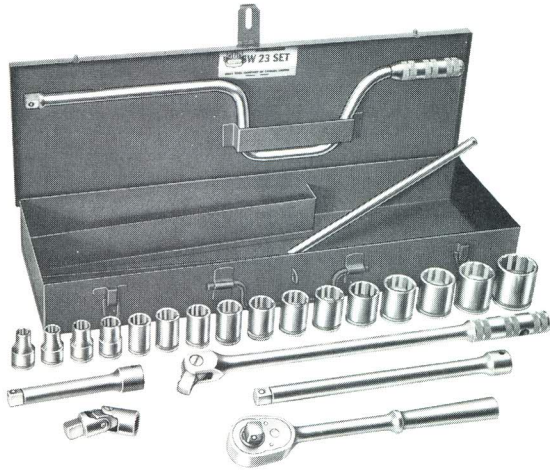
No.	Description
653	15" Flex. Handle
LD 26R	1 3/16" Plug Socket
686	19 1/4" Speeder
709	Universal Joint
718	5" Extension
719	10" Extension
5297	10" Reversible Ratchet

Sets are Best

Standard Series 1/2" Drive Sets

SW 23 Set

Contains 23 Pieces — 3/8" to 1 1/4"



This SW 23 set has straight wall sockets with the popular double hexagon openings. It contains sockets in sizes that find the most general use plus an excellent assortment of handles and attachments. Each piece is made from alloy steel, scientifically heat treated and heavily chrome plated. The box has a carrying handle and padlock hasp. Size 20" x 6" x 3 1/2". **Box No. 2201.**

Contents of SW 23

Size	No.	Size	No.
3/8"	1406	25/32"	1425
7/16"	1407	13/16"	1413
1/2"	1408	7/8"	1414
9/16"	1409	15/16"	1415
5/8"	1410	1"	1432
21/32"	1421	1 1/16"	1433
11/16"	1411	1 1/8"	1434
3/4"	1412	1 1/4"	1436

No.	Description	No.	Description
653	15" Flex Handle	718	5" Extension
LD 26R	13/16" Plug Socket	719	10" Extension
686	19 1/4" Speeder	5297	10" Reversible Ratchet
709	Universal Joint		

This 35 piece socket set is an ideal selection for the mechanic that does general repair work. It is a tool kit any man will be glad to own. It includes the popular regular design double hexagon straight wall sockets and nine single hexagon sockets, with a worth-while assortment of the popular attachments. All pieces are made of the finest alloy steel, heavily chrome plated and will retain their original finish indefinitely. The complete set is packed in a sturdy metal box with carrying handle and padlock hasp. Size 20 7/8" x 7" x 6 7/8". **Box No. 2219.**

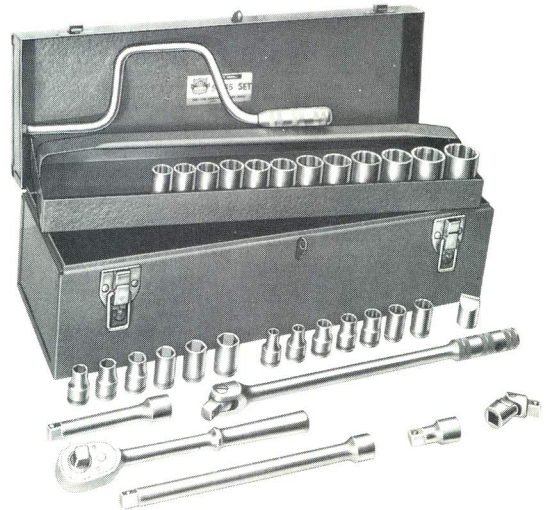
The SW 35 Set includes one each of the following

Size	No.	Description	Size	No.	Description
3/8"	1406	D.H. Sock.	1 1/16"	1433	D.H. Sock.
7/16"	1407	" "	1 1/8"	1434	" "
1/2"	1408	" "	1 3/16"	1435	" "
9/16"	1409	" "	1 1/4"	1436	" "
5/8"	1410	" "	3/8"	406	S.H. Sock.
21/32"	1421	" "	7/16"	407	" "
11/16"	1411	" "	1/2"	408	" "
3/4"	1412	" "	9/16"	409	" "
25/32"	1425	" "	5/8"	410	" "
13/16"	1413	" "	11/16"	411	" "
7/8"	1414	" "	3/4"	412	" "
15/16"	1415	" "	13/16"	413	" "
1"	1432	" "	7/8"	414	" "

No.	Description	No.	Description
405	Drag Link Socket	718S	2" Extension
686	19 1/4" Speeder	718	5" Extension
LD 26R	13/16" Plug Socket	719	10" Extension
709	Universal Joint	653	15" Flex. Handle
		5297	10" Deluxe Ratchet

SW 35 Set

Contains 35 Pieces — 3/8" to 1 1/4"



Standard Series 1/2" Drive Sets

This SW 15 is an inexpensive set for the beginner or the man who wishes to do his own repairs. The set contains the same high quality straight wall sockets, handles and deluxe ratchet as the larger sets. It is packed in an attractive metal box. Size 20" x 6" x 3 1/2". **Box No. 2201.**

SW 15 Set

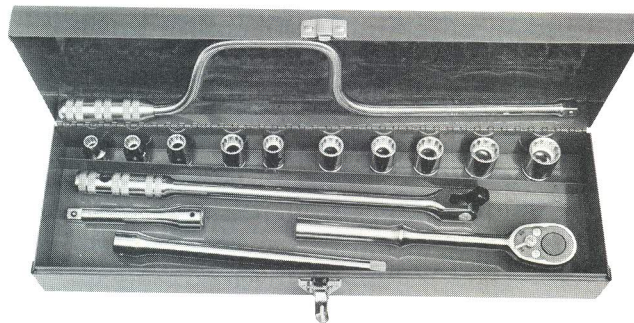
Contains 15 Pieces — 3/8" to 7/8"

The SW 15 Set includes one each of the following

Open.	No.	Description	Open.	No.	Description
3/8"	1406	D.H. Socket	2 1/32"	1421	D.H. Socket
7/16"	1407	" "	1 1/16"	1411	" "
1/2"	1408	" "	3/4"	1412	" "
9/16"	1409	" "	13/16"	1413	" "
5/8"	1410	" "	7/8"	1414	" "

Plus one each of the following Handles and attachments

No.	Description	No.	Description
686	19" Speeder	718	5" Extension
653	15" Flex Handle	719	10" "
5297	Reversible Ratchet		

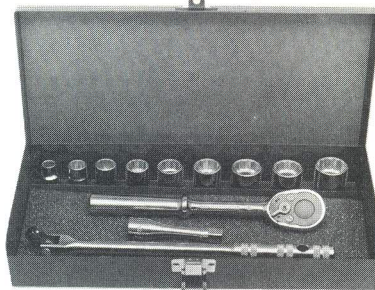


It is an ideal set for the service station or service man doing light repairs. All pieces are made of the finest quality alloy steel are chrome plated. Size 17" x 5 1/2" x 1 3/4". **Box No. 2284.**

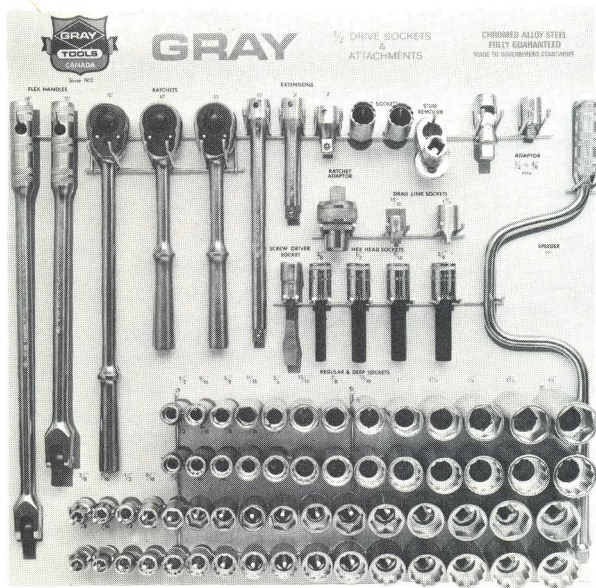
SW 12 Set

Contains 12 Pieces — 3/8" to 7/8"

Open.	No.	Description	Open.	No.	Description
3/8"	1406	D.H. Socket	1 1/16"	1411	D.H. Socket
7/16"	1407	" "	3/4"	1412	" "
1/2"	1408	" "	13/16"	1413	" "
9/16"	1409	" "	7/8"	1414	" "
5/8"	1410	" "	5"	718	Extension
10"	5297	Reversible Ratchet	15"	653	Flex Handle



WR 60 Drive Display Board



— The Mechanics Tool Centre —
1/4" & 3/8" Drive Sockets & Attachments
— A neat and compact 2' x 2'
— Each tool is outlined and marked
— Durable mar-proof white epoxy painted

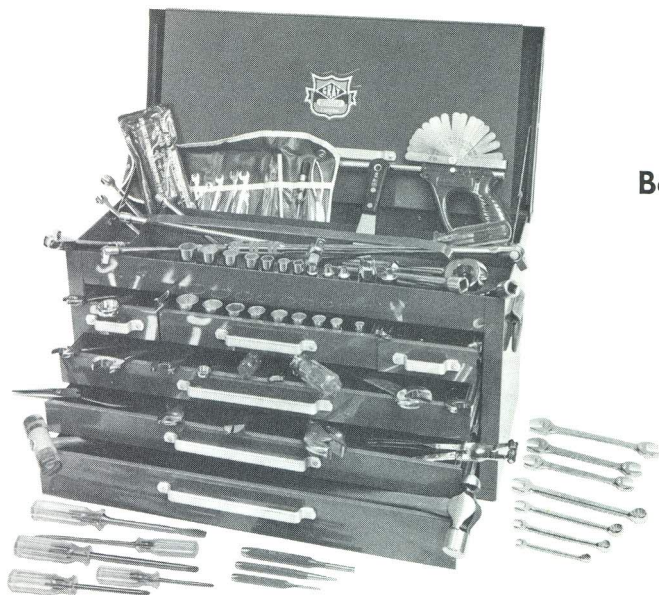
Single Hexagon Sockets		Deep Single Hexagon Sockets		Double Hexagon Sockets		Deep Double Hexagon Sockets		Hex Head Sockets	
No.	Size	No.	Size	No.	Size	No.	Size	No.	Size
406	3/8"	LDS 16	1/2"	1406	3/8"	LD 16	1/2"	DW 12 L	3/8"
407	7/16"	LDS 18	9/16"	1407	7/16"	LD 18	9/16"	DW 16 L	1/2"
408	1/2"	LDS 20	5/8"	1408	1/2"	LD 20	5/8"	DW 18 L	9/16"
409	9/16"	LDS 22	11/16"	1409	9/16"	LD 22	11/16"	DW 20 L	5/8"
410	5/8"	LDS 24	3/4"	1410	5/8"	LD 24	3/4"		
411	11/16"	LDS 26	13/16"	1411	11/16"	LD 26	13/16"		
412	3/4"	LDS 28	7/8"	1412	3/4"	LD 28	7/8"		
413	13/16"	LDS 30	15/16"	1413	13/16"	LD 30	15/16"		
414	7/8"	LDS 32	1"	1414	7/8"	LD 32	1"		
415	15/16"	LDS 34	1-1/16"	1415	15/16"	LD 34	1-1/16"		
432	1"	LDS 36	1-1/8"	1432	1"	LD 36	1-1/8"		
433	1-1/16"	LDS 38	1-3/16"	1433	1-1/16"	LD 38	1-3/16"		
434	1-1/8"	LDS 40	1-1/4"	1434	1-1/8"	LD 40	1-1/4"		
435	1-3/16"			1435	1-3/16"				
436	1-1/4"			1436	1-1/4"				
437	1-5/16"			1437	1-5/16"				

Stud Remover 2591	Adaptor 4206 1/2 to 3/8"	Screwdriver Sockets 734	U - Jt. 709 U-Jt.
Ratchet Adaptor 797	Speeder 686 19-1/4"	Extensions 718 S 2" 718 5" 719 10"	Plug Sockets LD 26 R 13/16" (2)
Flex Handles 653 15" 653 L 18"	Drag Link Sockets 405 15/16" 402 1-3/16"	Ratchets 5297 10" (2) 5297 L 15"	



You Can't Buy Better Tools

Master Set



BS 98 Set

Beginners' Auto Mechanic Set
For Tech. School Students

Contains 98 Pieces

Packed in Box No. 2250

3/8" Drive

No.	Description
TH8S	1/4" S.H. Socket
TH10	5/16" " "
TH12	3/8" " "
TH14	7/16" " "
TH16	1/2" " "
TH18	9/16" " "
TH20	5/8" " "
TH22	11/16" " "
TH24	3/4" " "
TH26	13/16" " "
TH28	7/8" " "
T4	6" Extension
T5	12" Extension
T30	9" Flexible Handle
T57	7 1/2" Rev. Ratchet

1/2" Drive

No.	Description
406	3/8" S.H. Socket
407	7/16" " "
408	1/2" " "
409	9/16" " "
410	5/8" " "
411	11/16" " "
412	3/4" " "
413	13/16" " "
414	7/8" " "
415	15/16" " "
432	1" " "
653L	18" Flex. Handle
709	1/2" "U" Joint
718	5" Extension
719	10" Extension
5297	10" Rev. Ratchet

Feeler Gauges

FG 2	Master Gauge
FG 7A	Spark Plug Gauge

Combination Wrenches

No.	Description	Length
3108	1/4"	3 1/2"
3110	3/16"	4"
3i12	3/8"	5"
3114	7/16"	5 3/8"
3116	1/2"	6"
3118	9/16"	6 3/4"
3120	5/8"	7 3/4"
3122	11/16"	8 5/8"
3124	3/4"	9 1/2"
3128	7/8"	11"
3132	1"	13 1/2"

Open End Wrenches

E 1214	3/8" x 7/16"
E 1618	1/2" x 9/16"
E 2024	5/8" x 3/4"
E 2628	13/16" x 7/8"
E 3032	1 1/2" x 1"

Pliers

B18	7" Diag. Cutting Plier
B29	7" Combination Plier
B654	7" Long Nose Plier
522	8" Battery Plier
10R	10" Vise Grip Plier

Screw Drivers

006	6" Electricians
04	4" Round Shank
06	6" " "
08	8" " "
CP1	No. 1 Point
CP2	No. 2 " "
CP3	No. 3 " "
CP4	No. 4 " "

Adapter

4206	1/2" Sq. Fem. & 3/8" Sq. Male
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Metric Wrenches

No.	Size
ME 810	8 mm x 10 mm
ME 911	9 mm x 11 mm
ME 1213	12 mm x 13 mm
ME 1416	14 mm x 16 mm
ME 1517	15 mm x 17 mm
ME 1819	18 mm x 19 mm

Hacksaw

No. 2682	Tubular Adjustable
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Ignition Set

No. 22LR	11 pce Tune-Up Kit
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Spark Plug Socket

No. LT26R	1 1/16" Deep socket with rubber insert
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Allen Wrenches

W9LR Set	— W1-W9
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Carbon Scraper

No. 838

Hose Clamp Plier

No. 886

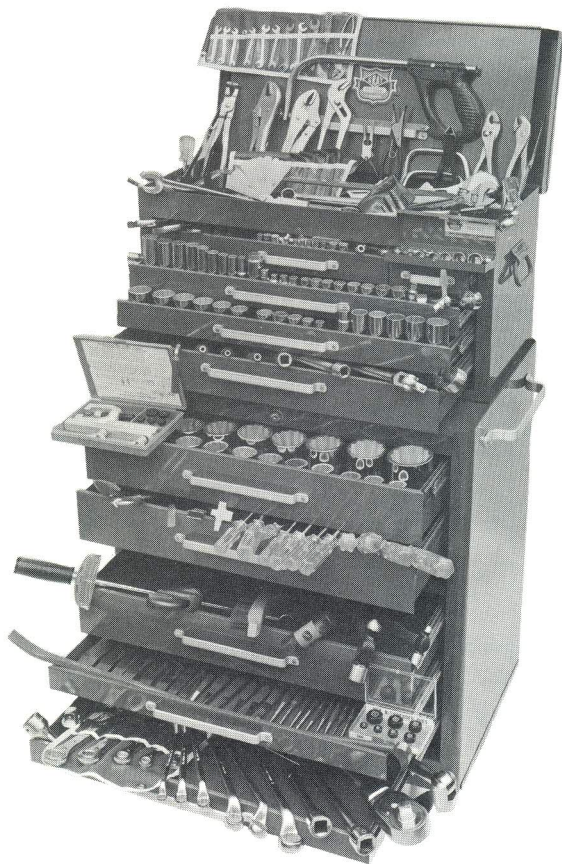
Hammers

212G	1 lb. Ball Pein
PH15	1/2 lb. Soft Face Hammer

Punches

C22	3/8" x 3/32" x 5 13/16" long
C28	3/8" x 1/8" x 5" long
C30	1/2" x 1/4" 6 1/2"

Master Set



MS 288 Set Contains 288 Pieces

Completely mobile, this set can be rolled to any point in your shop. The 288 high quality tools will accomplish almost any job that a mechanic will ever face.

Carefully checked to include only those tools which the mechanic uses most often, this set is a must with the mechanic who prides himself on doing the best job that is possible. Packed in **Box No. 2250** and **No. 2260** roller cabinet and **No. 2262** lower drawer set.

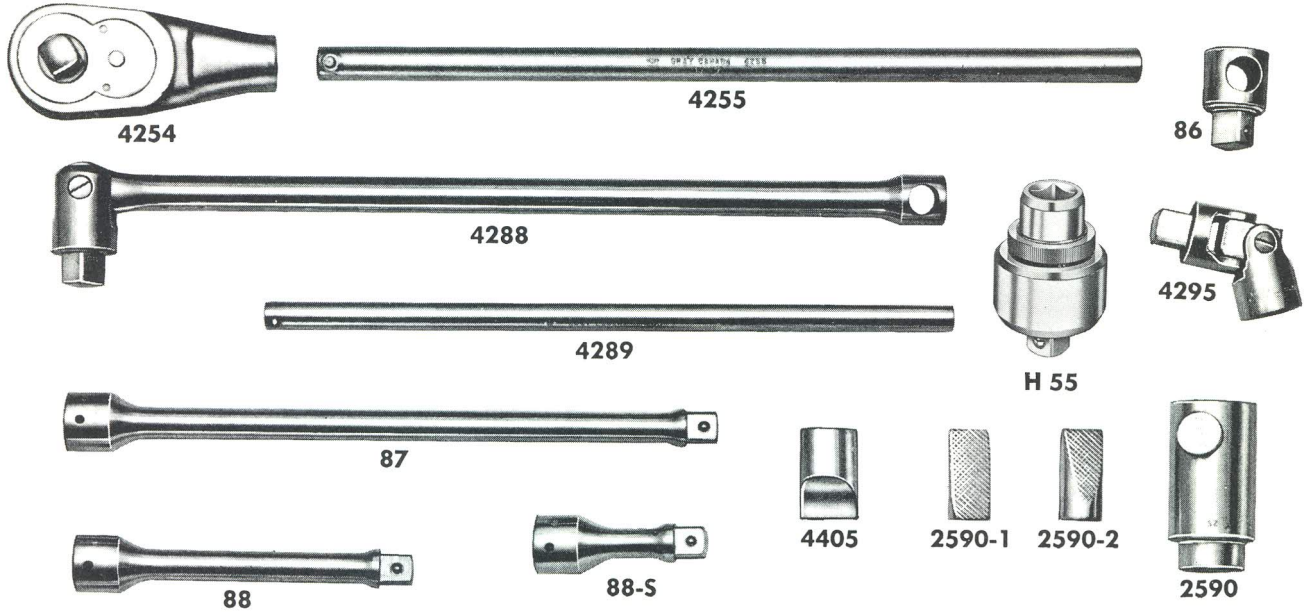
Part No.	Description	See Page
VS180	1/4" Drive Set	5
TG34	3/8" Drive Set *	9
TUJ12	Universal Joint Set	8
SW47	1/2" Drive Set *	16
HD25	3/4" Drive Set *	24
OE12LR	Open End Wrench Set *	38
TU14S	Combination Wrench Set *	36
DO12	Box Wrench Set *	41
270LR	Short Box Wrench Set	40
22LR	Ignition Set	39
5000LR	Ratcheting Box Wrench Set	40
SD13LR	Regular Screwdriver Set *	47
SD6LR	Phillips Screwdriver Set *	47
S35P	Screw Extractor Set	64
W11LR	Allen Wrench Set	65
F7TR	Thread Restorer Set	84
C47LR	Punch and Chisel Set *	56
RF163	Double Flaring Tool	69
2250	Master Chest	86
2260	Roller Cabinet	86
2262	Drawer Insert	87

(*) Sets marked with an asterisk do not include the tool box or leatherette roll.

Part No.	Description	See Page
10R	10" Vise Grip Plier	42
10WR	10" Side Cutting Vise-Grip	42
B8	8" Combination Plier	45
B17	6" Diagonal Cutting Plier	43
B21	8" Lock Ring Plier	42
B25	6" Side Cutting Plier	43
B45-10	10" Rib-Joint Plier	44
522	7" Angle Nose Battery Plier	45
525	13" Brake Spring Plier	45
886	Hose Clamp Plier	44
BW10	8" Adjustable Wrench	64
BW12	12" Adjustable Wrench	64
NSP14	14" Pipe Wrench	64
FG2	Master Feeler Gauge	66
FG7	Spark Plug Wire Gauge	66
FG14A	Go-No-Go Gauge	66
212K	4 oz. Ball Pein Hammer	78
212G	16 oz. Ball Pein Hammer	78
PH15	8 oz. Soft Face Hammer	78
CH06	3/16" Spinner Wrench	48
CH08	1/4" " "	48
CH10	5/16" " "	48
CH11	11/32" " "	48
CH12	3/8" " "	48
R150	Torque Wrench	52
K2	Magnetic Pickup Tool	51
127	Screw Starter	51
2564	Brake Adjusting Tool	83
C39	Pry Bar	55
X010	Oil Filter Wrench	70
840	Wire Brush	73
838	Flexible Carbon Scraper	73
2682	Hacksaw	64
199SK	Shop Knife	70
107D	Combination Snips	82

3/4" Square Drive

H. D. SERIES SOCKET HANDLES AND ATTACHMENTS



No.	Description	No.	Description
86	Drive Head. Use with 4255 Handle.	2590-2	Heavy Wedge for 2590
88 S	4" Forged Extension	4254	Rev. Ratchet Head Only
88	8" Forged Extension	4255	Rev. Ratchet Bar Only, 1 3/16" Dia. 19 1/2" Long
87	15 1/2" Forged Extension	4254-55	24" Long Rev. Ratchet Complete
2590	Stud Remover with Wedges (3/16" to 1")	4288	21" Flexible Handle
2590-1	Lt. Wedge for 2590	4289	Cross Bar
		4295	Universal Joint
		4405	Truck Drag Link Socket
		H55	3/4" Dr. Ratchet Adaptor

The 4255 Handle Fits the 4254 Ratchet and No. 86 Head

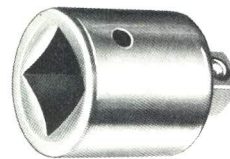
Extra Deep 3/4 Dr. Sockets



Single Hexagon 3 1/2" Long

Size	Part No.	Description
1"	RLH 32	S.H. Deep Socket
1 1/16"	RLH 34	" " "
1 1/8"	RLH 36	" " "
1 1/4"	RLH 40	" " "
1 3/16"	RLH 42	" " "
1 3/8"	RLH 44	" " "
1 1/2"	RLH 46	" " "
1 5/8"	RLH 48	" " "

ADAPTORS



No.	Openings	
	Female	Male
4211	3/4" Sq. & 1" Sq.	
•4213	1" Sq. & 3/4" Sq.	
4298	1/2" Sq. & 3/4" Sq.	
•4299	3/4" Sq. & 1/2" Sq.	
No.	Openings	
	Male	Male
•4202	1/2" Sq. & 3/4" Sq.	

3/4" Square Drive Sockets

HEAVY DUTY SERIES

HD Sockets Double Hexagon

Opening	Number	Socket End Diameter	Length
3/4"	HD 24	1 1/64"	1 5/16"
13/16"	HD 26	1 5/64"	1 5/16"
7/8"	HD 28	1 1/64"	1 5/16"
15/16"	HD 30	1 3/8"	1 5/16"
1"	HD 32	1 29/64"	1 5/16"
1 1/16"	HD 34	1 35/64"	2"
1 1/8"	HD 36	1 5/8"	2 1/16"
1 3/16"	HD 38	1 11/16"	2 1/8"
1 1/4"	HD 40	1 29/32"	2 1/8"
1 5/16"	HD 42	1 7/8"	2 3/16"
1 3/8"	HD 44	1 29/32"	2 3/16"
1 7/16"	HD 46	2"	2 1/4"
1 1/2"	HD 48	2 3/32"	2 3/16"
1 5/8"	HD 50	2 3/16"	2 3/8"
1 5/8"	HD 52	2 1/4"	2 3/8"
1 11/16"	HD 54	2 11/32"	2 3/16"
1 3/4"	HD 56	2 7/16"	2 3/16"
1 13/16"	HD 58	2 7/16"	2 5/8"
1 7/8"	HD 60	2 5/8"	2 3/4"
2"	HD 64	2 5/8"	3"
2 1/16"	HD 66	2 27/32"	3 1/16"
2 1/8"	HD 68	2 27/32"	3 3/32"
2 3/16"	HD 70	2 31/32"	3 1/8"
2 1/4"	HD 72	2 31/32"	3 3/32"
2 3/8"	HD 76	3 7/32"	3 1/4"



HD 12 Set — 3/4" Drive Contains 12 Pieces — 1" to 1 5/8"



This set is especially valuable for the user who requires heavy duty tools at a minimum investment. It can be built up into the big **HD 25** set as the same box is used for both sets. **Box No. 2210.**

Contains one each of the following:

Open.	No.	Description	Open.	No.	Description
1"	HD 32	D.H. Socket	1 3/8"	HD 44	D.H. Socket
1 1/16"	HD 34	" "	1 7/16"	HD 46	" "
1 1/8"	HD 36	" "	1 1/2"	HD 48	" "
1 1/4"	HD 40	" "	1 5/8"	HD 52	" "

and following attachments

No.	Description	No.	Description
86	Head (use 4255 Handle)	88	8" Extension
87	1 5/2" Extension	4255	Handle

You Can't Buy Better Tools



3/4" Square Drive Socket Sets

HEAVY DUTY SERIES

This is an extremely fine heavy duty socket wrench set. It contains a complete range of the heavy duty alloy steel forged sockets with double hexagon openings in sizes from 7/8" to 2 3/16", a heavy duty reversible ratchet and the other heavy duty attachments as listed below. This is a deluxe set built for hard usage. All pieces are chrome plated and contained in a strong metal box. (Box 2210 21 1/2" x 8 3/8" x 3 3/4"). Set includes one each of:

Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	D.H. Sock.	1 1/2"	HD 48	D.H. Sock.
1 5/16"	HD 30	" "	1 1/4"	HD 50	" "
1"	HD 32	" "	1 5/8"	HD 52	" "
1 1/16"	HD 34	" "	1 1/16"	HD 54	" "
1 1/8"	HD 36	" "	1 3/4"	HD 56	" "
1 3/16"	HD 38	" "	1 13/16"	HD 58	" "
1 1/4"	HD 40	" "	1 7/8"	HD 60	" "
1 5/16"	HD 42	" "	2"	HD 64	" "
1 3/8"	HD 44	" "	2 3/16"	HD 70	" "
1 7/16"	HD 46	" "			

plus the following attachments

No.	Description	No.	Description
4254-55	24" Rev. Ratchet (2 pieces)	88	8" Extension
4288	21" Flex. Handle	87	15 1/2" Extension
88S	4" Extension	86	Head

HD 25 Set

Contains 25 Pieces 7/8" to 2 3/16"



This heavy duty set contains a broad range of the heavy duty alloy steel sockets, including sizes from 7/8" to 2". It was designed to handle the heavy work on buses, trucks, tractors and all types of heavy industrial machinery. It is packed in a strong metal box. Box 2210 21 1/2" x 8 3/8" x 3 3/4".

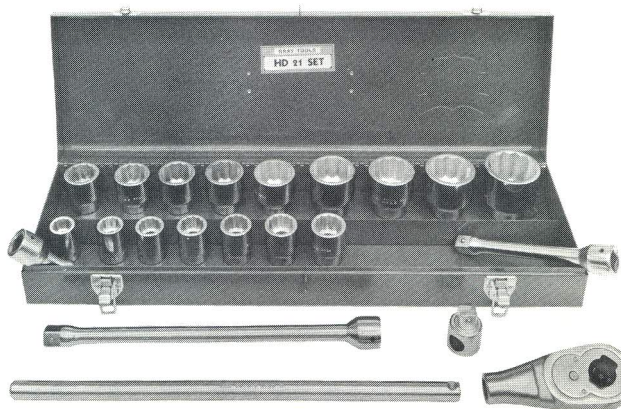
Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	D.H. Sock.	1 3/8"	HD 44	D.H. Sock.
1 5/16"	HD 30	" "	1 7/16"	HD 46	" "
1"	HD 32	" "	1 1/2"	HD 48	" "
1 1/16"	HD 34	" "	1 5/8"	HD 52	" "
1 1/8"	HD 36	" "	1 3/4"	HD 56	" "
1 3/16"	HD 38	" "	1 13/16"	HD 58	" "
1 1/4"	HD 40	" "	1 7/8"	HD 60	" "
1 5/16"	HD 42	" "	2"	HD 64	" "

and following attachments:

No.	Description	No.	Description
4254-55	24" Rev. Ratchet (2 pieces)	88	8" Extension
88S	4" Extension	87	15 1/2" Extension
		86	Head

HD 21 Set

Contains 21 Pieces — 7/8" to 2"

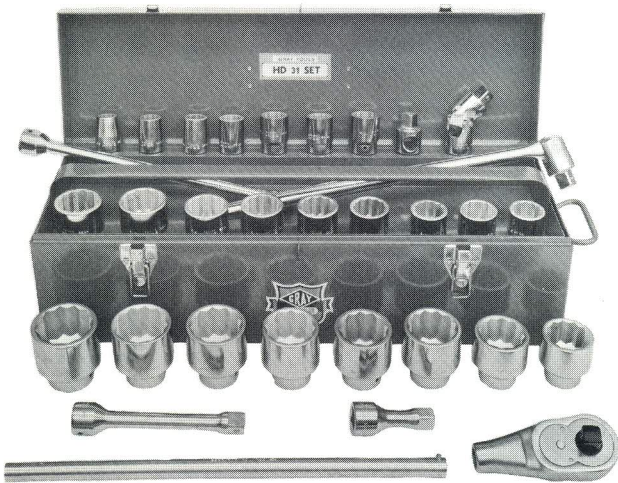


3/4" Square Drive Socket Sets

HEAVY DUTY SERIES

HD 31 Set

Contains 31 Pieces — 3/4" to 2 3/8"



The HD 31 Set contains a complete range of heavy duty sockets and attachments. All of the necessary parts are here to service any heavy industry or construction job. Set packed in Heavy Duty box No. 2204. Size 26" x 8" x 8".

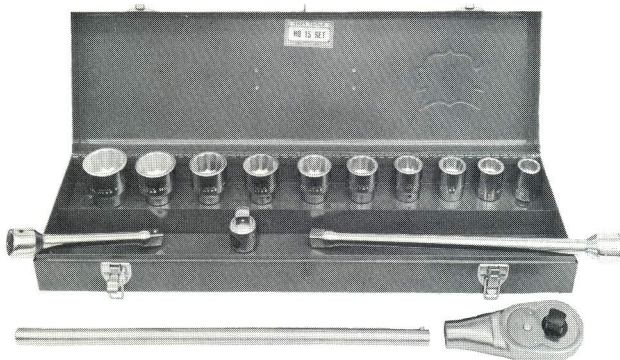
Opening	Number	Description	Opening	Number	Description
3/4"	HD 24	D. H. Socket	1 1/16"	HD 50	D. H. Socket
7/8"	HD 28	" "	1 5/8"	HD 52	" "
1 1/16"	HD 30	" "	1 11/16"	HD 54	" "
1"	HD 32	" "	1 3/4"	HD 56	" "
1 1/16"	HD 34	" "	1 13/16"	HD 58	" "
1 1/8"	HD 36	" "	1 7/8"	HD 60	" "
1 3/16"	HD 38	" "	2"	HD 64	" "
1 1/4"	HD 40	" "	2 1/16"	HD 66	" "
1 5/16"	HD 42	" "	2 1/8"	HD 68	" "
1 3/8"	HD 44	" "	2 3/16"	HD 70	" "
1 7/16"	HD 46	" "	2 1/4"	HD 72	" "
1 1/2"	HD 48	" "	2 3/8"	HD 76	" "

and following attachments:

No.	Description
86	Drive Head. Use with 4255 Handle
88 S	4" Forged Extension
88	8" Forged Extension
87	15 1/2" Forged Extension
4254-55	24" Long Rev. Ratchet Complete (2 pieces)
4288	22" Flexible Handle
4295	Universal Joint

HD 15 Set

Contains 15 Pieces — 7/8" to 1 3/4"



The HD 15 Set consists of fifteen well selected pieces chosen to provide a wide range in heavy duty types and sizes with a minimum investment. Supplied in strong metal box, No. 2210, Size 21 1/2" x 8 3/8" x 3 1/4".

Content includes

Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	D.H. Sock.	1 3/8"	HD 44	D.H. Sock.
1"	HD 32	" "	1 7/16"	HD 46	" "
1 1/16"	HD 34	" "	1 1/2"	HD 48	" "
1 1/8"	HD 36	" "	1 5/8"	HD 52	" "
1 1/4"	HD 40	" "	1 3/4"	HD 56	" "

and following attachments

No.	Description	No.	Description
86	Drive Head (use 4255 Handle)	88	8" Extension
87	15 1/2" Extension	4254-55	Ratchet (2 pieces)



The Finest Name in Tools

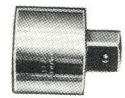
Since 1912

1" Square Drive Attachments

EXTRA HEAVY DUTY SERIES



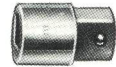
X 101



4213



X 106



4211



X 9



X 8



X 31



X 32

No.	Description	No.	Description
X 8	8" Extension	X 101	23 1/2" Reversible Ratchet
X 9	17" Extension	X 106	25" Flexible Handle
X 31	21 1/2" Sliding Bar	4211	3/4" Square Female, 1" Male Adaptor
X 32	Drive Head, Male	● 4213	1" " " 3/4" " "

1 INCH SQUARE DRIVE 12 POINT REGULAR LENGTH



No.	Opening	Bolt Clearance Depth	Overall Length
X 46	1 3/16"	1 5/16"	2 1/2"
X 48	1 1/2"	1 7/16"	2 9/16"
X 52	1 5/8"	1 7/16"	2 11/16"
X 54	1 11/16"	1 5/8"	2 3/4"
X 58	1 13/16"	1 11/16"	2 7/8"
X 60	1 7/8"	1 15/16"	2 15/16"
X 64	2"	2"	3"
X 68	2 1/8"	2 1/16"	3 1/16"
X 70	2 3/16"	2 1/8"	3 1/8"
X 72	2 1/4"	2 1/8"	3 3/16"
X 74	2 5/16"	2 3/16"	3 1/4"
X 76	2 3/8"	2 1/4"	3 5/16"
X 78	2 7/16"	2 5/16"	3 7/8"
X 80	2 1/2"	2 3/8"	3 1/16"
X 82	2 11/16"	2 7/16"	3 1/2"
X 84	2 5/8"	2 1/2"	3 1/16"
X 88	2 3/4"	2 9/16"	3 1/16"
X 94	2 15/16"	2 11/16"	3 11/16"
X 96	3"	2 3/4"	3 13/16"
X 100	3 1/8"	2 3/4"	3 7/8"

1" Square Drive Sets

EXTRA HEAVY DUTY SERIES

No. XH 25 Extra Heavy-Duty Socket Set

Contains 25 Pieces — 1 $\frac{1}{16}$ " to 3"

Gray Tool Set No. **XH 25** contains an assortment of seventeen 1" square drive double hexagon sockets, from 1 $\frac{1}{16}$ " to 3", and eight attachments.

Designed for extra heavy work on buses, trucks, tractors, marine engines, heavy equipment and industrial machinery.

Packed in heavy duty metal box with piano type hinge, carrying handles end catches and padlock hasp. Size 26 $\frac{1}{2}$ " x 8 x 8. **No. 2204.**

No.	Description	No.	Description
X 46	1 $\frac{1}{16}$ " D.H. Socket	X 74	2 $\frac{5}{16}$ " D.H. Socket
X 48	1 $\frac{1}{2}$ " " "	X 76	2 $\frac{3}{8}$ " " "
X 52	1 $\frac{5}{8}$ " " "	X 78	2 $\frac{1}{16}$ " " "
X 54	1 $\frac{11}{16}$ " " "	X 80	2 $\frac{1}{2}$ " " "
X 58	1 $\frac{13}{16}$ " " "	X 82	2 $\frac{3}{16}$ " " "
X 60	1 $\frac{7}{8}$ " " "	X 84	2 $\frac{5}{8}$ " " "
X 64	2" " "	X 88	2 $\frac{3}{4}$ " " "
X 70	2 $\frac{3}{16}$ " " "	X 96	3" " "
X 72	2 $\frac{1}{4}$ " " "		

and the following attachments

No.	Description	No.	Description
X 8	8" Extension	X 106	25" Flex Handle
X 9	17" " "	4211	$\frac{3}{4}$ " square female
X 31	21 $\frac{1}{2}$ " Sliding Bar		1" sq. male adaptor
X 32	Drive Head, Male	4213	1" square female $\frac{3}{4}$ "
X 101	23 $\frac{1}{2}$ " Reversible Ratchet		square male adaptor



No. XH 16 Extra Heavy-Duty Socket Set

Contains 16 Pieces — 1 $\frac{1}{16}$ " to 2 $\frac{1}{2}$ "

Gray Tool Set **XH 16** contains an assortment of eleven 1" square drive double hexagon sockets from 1 $\frac{1}{16}$ " to 2 $\frac{1}{2}$ " and five attachments.

Designed for extra heavy-duty work on buses, trucks, tractors, marine engines and equipment and industrial machinery.

Packed in heavy duty metal box with piano type hinge, carrying handles end catches and padlock hasp. Size 26 $\frac{1}{2}$ " x 8 x 8. **No. 2204.**

No.	Description	No.	Description
X 46	1 $\frac{1}{16}$ " D.H. Socket	X 64	2" D.H. Socket
X 48	1 $\frac{1}{2}$ " " "	X 70	2 $\frac{3}{16}$ " " "
X 52	1 $\frac{5}{8}$ " " "	X 72	2 $\frac{1}{4}$ " " "
X 54	1 $\frac{11}{16}$ " " "	X 76	2 $\frac{3}{8}$ " " "
X 58	1 $\frac{13}{16}$ " " "	X 80	2 $\frac{1}{2}$ " " "
X 60	1 $\frac{7}{8}$ " " "		

and the following attachments

No.	Description	No.	Description
X 8	8" Extension	X 32	Drive Head, Male
X 9	17" " "	X 101	Reversible Ratchet
X 31	21 $\frac{1}{2}$ " Sliding Bar		



Since 1912

For Extra Heavy Repairs

Metric 1/4" Drive Attachments and Sets



V 25



4216



211



V 26



V 34



SD 14



V 606



MF 6



V 780



V 603



V 760



4217



V 5



V 602



518



001

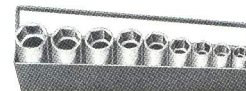
No.	Description	No.	Description	No.	Description
• 001	Pocket Ignition Screwdriver	MF6	1/4" Flex. Extension	• V34	1/4" Dr. Screwdriver
211	Flexible Screwdriver	SD14	1/4" Male Flexible Driver	V602	2" Extension
• 518	Ignition Pliers	V5	16" Speeder	V603	4" Extension
• 4216	3/8" Sq. Female; 1/4" Sq. Male Adaptor	V25	1/4" Reversible Ratchet, 5" Long	V606	6" Extension
4217	1/4" Sq. Female; 3/8" Sq. Male Adaptor	V26	5 1/2" Flex. Handle	V760	Universal Joint
				V780	1/4" Drive Insul. Handle, 6" Long.

SINGLE HEXAGON



Opening	No.	Opening	No.
4mm	M 604	9mm	M 609
5mm	M 605	10mm	M 610
6mm	M 606	11mm	M 611
7mm	M 607	12mm	M 612
8mm	M 608		

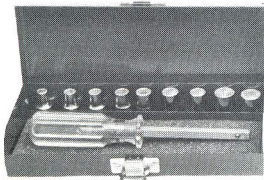
SET No. M9141



Metric 1/4" Drive Sockets consists of 9 single hex sockets — Numbers M 604 to M 612. packed in steel tray, No. 1923.

No. M9140 Set

Contains 10 Pieces — 4mm to 12mm

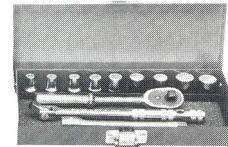


The ideal basic set for ignition and electrical work. Includes nine sockets and a versatile drive handle. All within a handy metal case No. 2281. 7" x 3 1/4" x 1 1/4".

No.	Description	No.	Description
M 604	4mm S.H. Socket	M 610	10mm " "
M 605	5mm " "	M 611	11mm S.H. Socket
M 606	6mm " "	M 612	12mm " "
M 607	7mm " "	V 780	6" Drive Handle
M 608	8mm " "		
M 609	9mm " "		

No. M9142 Set

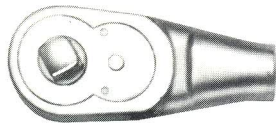
Contains 12 pieces — 4mm to 12mm



A complete set made from special heat treated alloy steel. Mirror chrome finished for long life. A must for any mechanic. Packed in sturdy metal box No. 2281 7" x 3 1/4" x 1 1/4".

No.	Description	No.	Description
M 604	4mm S.H. Socket	M 611	11mm S.H. Socket
M 605	5mm " "	M 612	12mm " "
M 606	6mm " "	V 25	Rev. Ratchet 5"
M 607	7mm " "	V 26	Flex Handle 5 1/2"
M 608	8mm " "	V 603	4" Extension
M 609	9mm " "		
M 610	10mm " "		

Metric 3/4" Drive Sockets and Sets



4254



86



4295



88-S



88



87



4255



4288



Opening	Number
19mm	M 3419
20mm	M 3420
21mm	M 3421
22mm	M 3422
23mm	M 3423
24mm	M 3424
25mm	M 3425
26mm	M 3426
27mm	M 3427
28mm	M 3428
29mm	M 3429
30mm	M 3430
32mm	M 3432
35mm	M 3435
36mm	M 3436

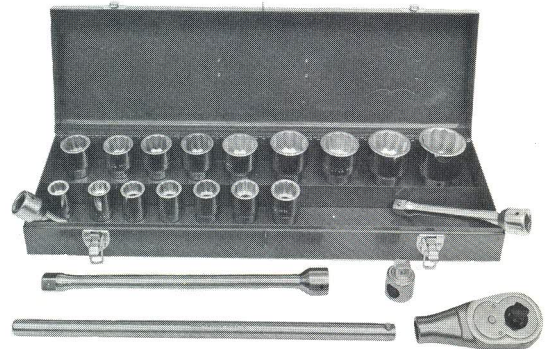
No.	Description
86	Drive Head. Use with 4255 Handle.
88 S	4" Forged Extension
88	8" Forged Extension
87	15 1/2" Forged Extension
4254	Rev. Ratchet Head Only
4255	Rev. Ratchet Bar Only, 1 3/16" Dia. 19 1/2" Long
4254-55	24" Long Rev. Ratchet Complete
4288	21" Flexible Handle
4295	Universal Joint

This heavy duty set contains a broad range of the heavy duty alloy steel sockets, including sizes from 19mm to 36mm. It was designed to handle the heavy work on buses, trucks, tractors and all types of heavy industrial machinery. It is packed in a strong metal box containing one each of the following:

SET NUMBER M 9341

packed in box number 2210

Opening	Number	Description	Opening	Number	Description
19mm	M 3419	D.H. Sock.	27mm	M 3427	D.H. Sock.
20mm	M 3420	" "	28mm	M 3428	" "
21mm	M 3421	" "	29mm	M 3429	" "
22mm	M 3422	" "	30mm	M 3430	" "
23mm	M 3423	" "	32mm	M 3432	" "
24mm	M 3424	" "	35mm	M 3435	" "
25mm	M 3425	" "	36mm	M 3436	" "
26mm	M 3426	" "	88	8" Extension	
4254-55	24" Rev. Ratchet (2 pieces)		87	15 1/2" Extension	
88S	4" Extension		86	Head	



The Finest Name in Tools

Metric 3/8" Drive Sockets

Single Hexagon



Opening	No.
6mm	MT 6H
7mm	MT 7H
8mm	MT 8H
9mm	MT 9H
10mm	MT 10H
11mm	MT 11H
12mm	MT 12H
13mm	MT 13H
14mm	MT 14H
15mm	MT 15H
16mm	MT 16H
17mm	MT 17H
18mm	MT 18H
19mm	MT 19H
20mm	MT 20H
21mm	MT 21H
22mm	MT 22H

Double Hexagon



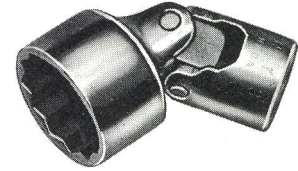
Opening	No.
6mm	MT 6
7mm	MT 7
8mm	MT 8
9mm	MT 9
10mm	MT 10
11mm	MT 11
12mm	MT 12
13mm	MT 13
14mm	MT 14
15mm	MT 15
16mm	MT 16
17mm	MT 17
18mm	MT 18
19mm	MT 19
20mm	MT 20
21mm	MT 21
22mm	MT 22

Deep Double Hexagon



Opening	No.
9mm	MTL 9
10mm	MTL 10
11mm	MTL 11
12mm	MTL 12
13mm	MTL 13
14mm	MTL 14
15mm	MTL 15

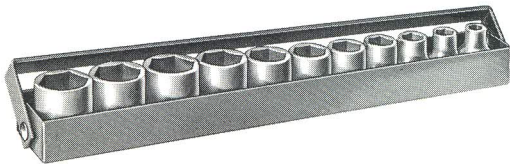
Double Hexagon U-Joint Sockets



Opening	No.
9mm	MTF 9
10mm	MTF 10
11mm	MTF 11
12mm	MTF 12
13mm	MTF 13
14mm	MTF 14
15mm	MTF 15

M 9381 Set

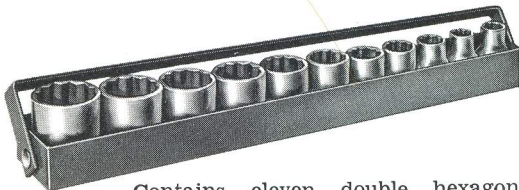
9mm to 19mm



Contains eleven single hexagon regular length sockets. Numbers **MT 9 H - MT 19 H** packed in steel tray. Number 1922.

MT 111 Set

9mm to 19mm



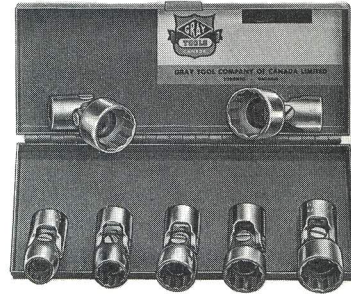
Contains eleven double hexagon regular length sockets. Numbers **MT 9 - MT 19** packed in steel tray. Number 1922.

Set number M9384 consists of 17 single hex regular length socket numbers MT6H to MT22H. Tray not included.

Set number M9382 consists of 17 double hex regular length socket number MT6 to MT22. Tray not included

Set number M9385 consists of 7 double hex deep socket numbers MTL9 to MTL15. Tray not included.

M9383 Set 9mm to 15mm



Contains seven double hexagon regular length Flex sockets. Numbers **MTF 9 - MTF 15** packed in steel box. Number 2281.

Metric Allen Socket Head Wrenches

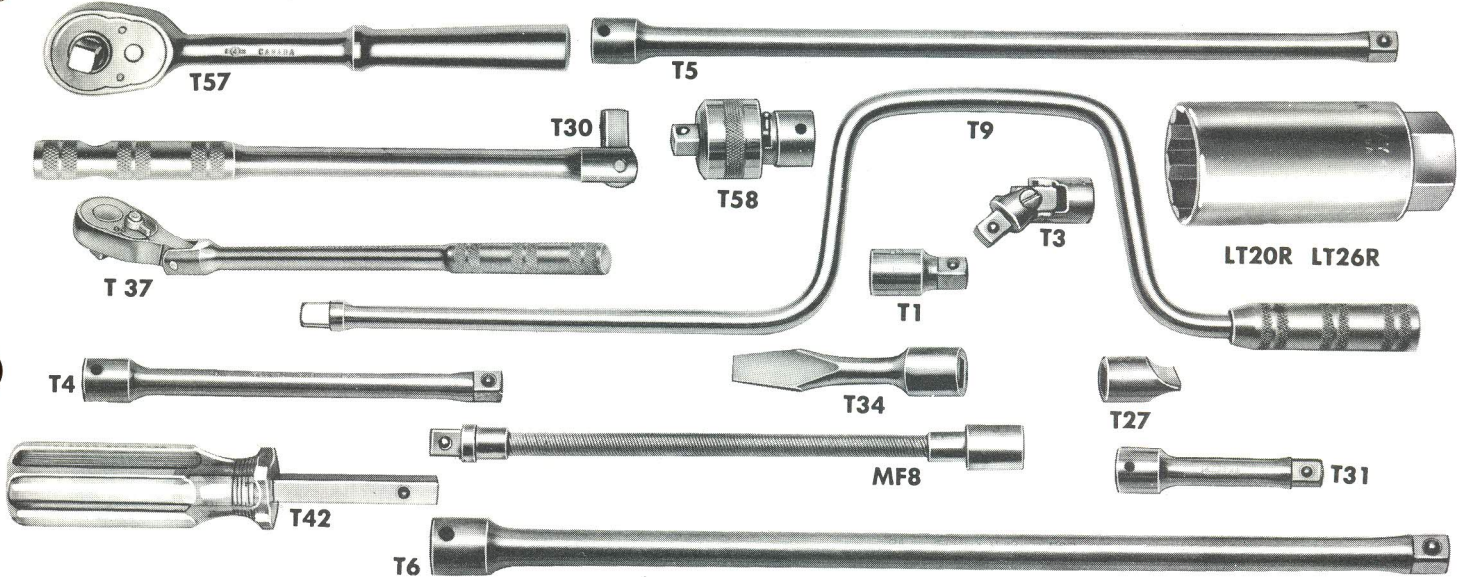
Across Flats	No.
4mm	MTW 4
5mm	MTW 5
6mm	MTW 6
8mm	MTW 8
10mm	MTW 10

Spare bits listed in price list



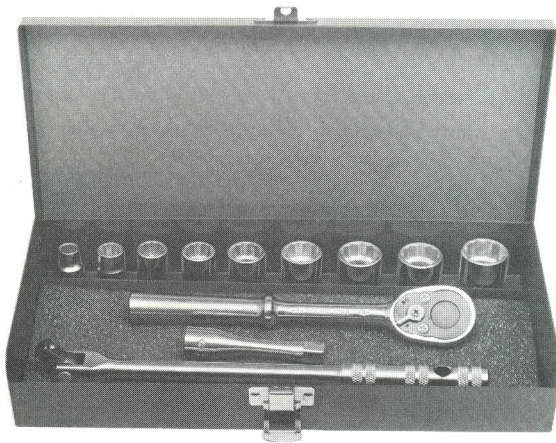
Metric 3/8" Drive Attachments Socket Sets

The 3/8" Drive Attachments have become a must for all good mechanics' tool kits. The chrome plated, alloy steel, extra slim handles and attachments, are designed to allow the mechanic to get at the tightest spots on modern motors, aircraft and refrigeration units with ease.



LT 20 R	5/8" Buick Plug -Socket	T 4	6" Extension	• T 34	Screw Driver Socket Blade 3/8" x 1/16" wide
LT 26 R	Spark Plug Socket 13/16" - 12 pt. extra deep with rub- ber insert and 3/4" hex on outside at drive end.	T 5	12" "	T 37	Flex Head Ratchet
MF 8	3/8" Flexible Extension 8"	T 6	20" "	T 42	6 1/8" Screw Driver Type Handle
T 1	1 1/2" Extension	T 9	16 1/4" Speeder	T 57	7 1/2" Reversible Ratchet
T 3	Universal Joint	T 27	Drag Link Skt. .113" x 1/16" blade	T 58	Ratchet Adaptor
		T 30	9" Flex Handle		
		T 31	3" Extension		

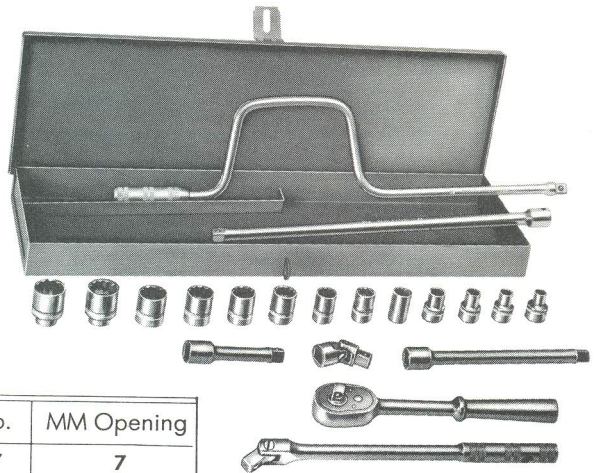
M9372 Set Contains 12 pieces — 9mm to 19mm



Packed in Box No. 2285

No.	Description	No.	Description
MT 9H	9mm S.H. Socket	MT 15H	15mm S. H. Socket
MT 10H	10mm " "	MT 17H	17mm " "
MT 11H	11mm " "	MT 19H	19mm " "
MT 12H	12mm " "	T 31	3" Extension
MT 13H	13mm " "	T 57	7 1/2" Reversible Ratchet
MT 14H	14mm " "	T 30	9" Flex-handle

M9387 Set Contains 20 pieces — 7mm to 19mm



No.	MM Opening
MT 7	7
MT 8	8
MT 9	9
MT 10	10
MT 11	11
MT 12	12
MT 13	13
MT 14	14
MT 15	15
MT 16	16
MT 17	17
MT 18	18
MT 19	19

Packed in Box No. 2201

No.	Description
T 3	Universal Joint
T 31	3" Extension
T 4	6" "
T 5	12" "
T 9	16 1/4" Speeder
T 30	9" Flex Handle
T 57	7 1/2" Reversible Ratchet



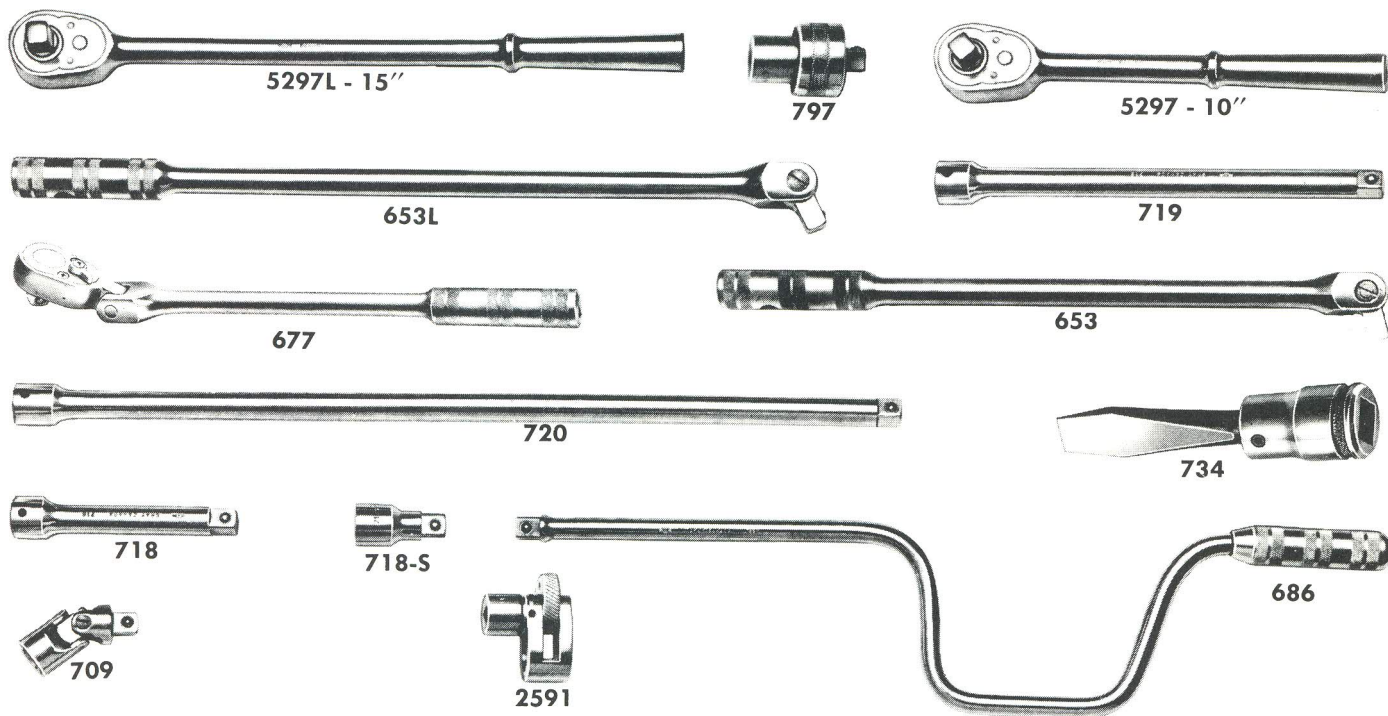
For Greater Efficiency

Since 1912

Metric 1/2" Drive Attachments and Sets

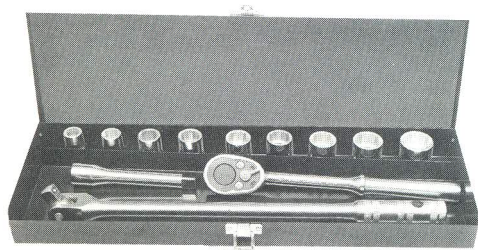
These Handles and Attachments are forged slimmer and lighter for your convenience, due to the use of the finest alloy steel, scientifically heat treated to assure maximum strength. These Gray Tool attachments are highly polished and heavily chrome plated.

HANDLES AND ATTACHMENTS



No.	Description	No.	Description	No.	Description
653	15" " "	718S	2" Forged Extension	5297	10" Reversible Ratchet
653L	18" " "	718	5" " "	5297L	15" Reversible Ratchet
686	19 1/4" Speeder Rev. Grip	719	10" " "	677	14 1/2" Flex Head Ratchet
797	1/2" Drive Ratchet Adaptor	720	20" " "	734	Screw Driver Socket
709	Universal Joint			2591	Stud Remv. (5/16" to 5/8")

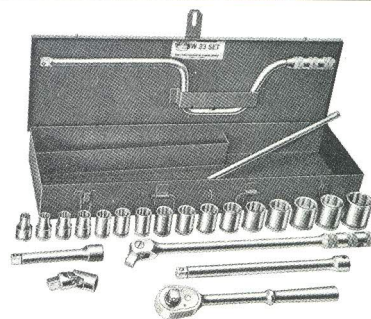
M9112 Set
Contains 12 pieces — 12mm to 22mm



No.	Description	No.	Description
M 1212H	12mm S.H. Socket	M 1220H	20mm S.H. Socket
M 1213H	13mm " "	M 1221H	21mm " "
M 1214H	14mm " "	M 1222H	22mm " "
M 1215H	15mm " "	653	15" flex handle
M 1217H	17mm " "	718	5" Extension
M 1219H	19mm " "	5297	10" Reversible Ratchet

**Packed in
box No. 2284**

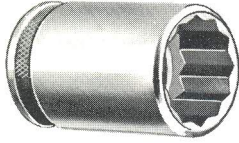
M9124 Set
Contains 23 pieces
11mm to 27mm



No.	Description	No.	Description
M 1211	11mm D.H. Socket	M 1223	23mm D.H. Socket
M 1212	12mm " "	M 1224	24mm " "
M 1213	13mm " "	M 1225	25mm " "
M 1214	14mm " "	M 1226	26mm " "
M 1215	15mm " "	M 1227	27mm " "
M 1216	16mm " "	653	15" Flex Handle
M 1217	17mm " "	686	19 1/4" Speeder
M 1218	18mm " "	709	Universal Joint
M 1219	19mm " "	718	5" Extension
M 1220	20mm " "	719	10" Extension
M 1221	21mm " "	5297	10" Reversible Ratchet
M 1222	22mm " "		Packed in Box No. 2201

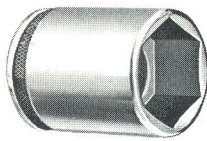
Metric 1/2" Drive Regular and Power Sockets

Double Hexagon



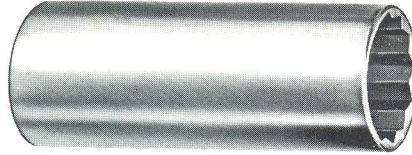
MM Opening	No.
10	M1210
11	M1211
12	M1212
13	M1213
14	M1214
15	M1215
16	M1216
17	M1217
18	M1218
19	M1219
20	M1220
21	M1221
22	M1222
23	M1223
24	M1224
25	M1225
26	M1226
27	M1227
28	M1228
29	M1229
30	M1230
31	M1231
32	M1232

Single Hexagon



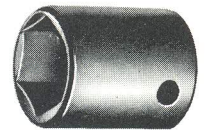
MM Opening	No.
10	M1210H
11	M1211H
12	M1212H
13	M1213H
14	M1214H
15	M1215H
16	M1216H
17	M1217H
18	M1218H
19	M1219H
20	M1220H
21	M1221H
22	M1222H
23	M1223H
24	M1224H
25	M1225H
26	M1226H
27	M1227H

Deep Double Hexagon



MM Opening	No.
16	MD1216
17	MD1217
18	MD1218
19	MD1219
20	MD1220
21	MD1221
22	MD1222
23	MD1223
24	MD1224
25	MD1225
26	MD1226

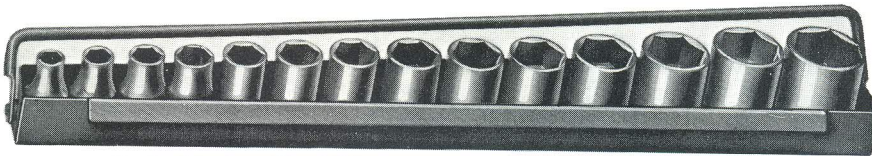
Power Sockets Single Hexagon



MM Opening	No.
10	MP10H
11	MP11H
12	MP12H
13	MP13H
14	MP14H
15	MP15H
16	MP16H
17	MP17H
18	MP18H
19	MP19H
20	MP20H
21	MP21H
22	MP22H
23	MP23H
24	MP24H
25	MP25H
26	MP26H
27	MP27H

CONTENTS

M9121 — Set Contains 14 regular length single hex sockets.



Packed in tray No. 1920

MM Opening	No.	MM Opening	No.
10	M1210H	17	M1217H
11	M1211H	18	M1218H
12	M1212H	19	M1219H
13	M1213H	20	M1220H
14	M1214H	21	M1221H
15	M1215H	22	M1222H
16	M1216H	23	M1223H

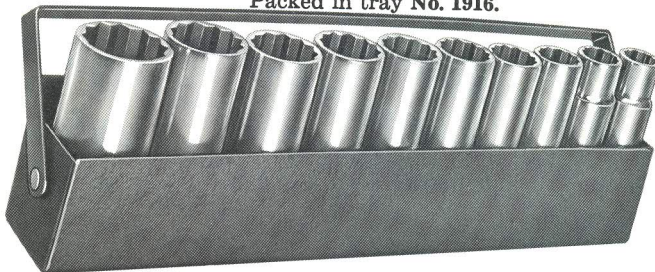
M115 — Set Contains 15 regular length double hex sockets.
Packed in tray No. 1921



CONTENTS

MM Opening	No.	MM Opening	No.
12	M1212	24	M1224
14	M1214	26	M1226
16	M1216	27	M1227
17	M1217	28	M1228
18	M1218	30	M1230
19	M1219	31	M1231
20	M1220	32	M1232
22	M1222		

M9122 — Set Contains 10 deep double hex sockets.
Packed in tray No. 1916.



CONTENTS

MM Opening	No.	MM Opening	No.
16	MD1216	21	MD1221
17	MD1217	22	MD1222
18	MD1218	23	MD1223
19	MD1219	24	MD1224
20	MD1220	25	MD1225

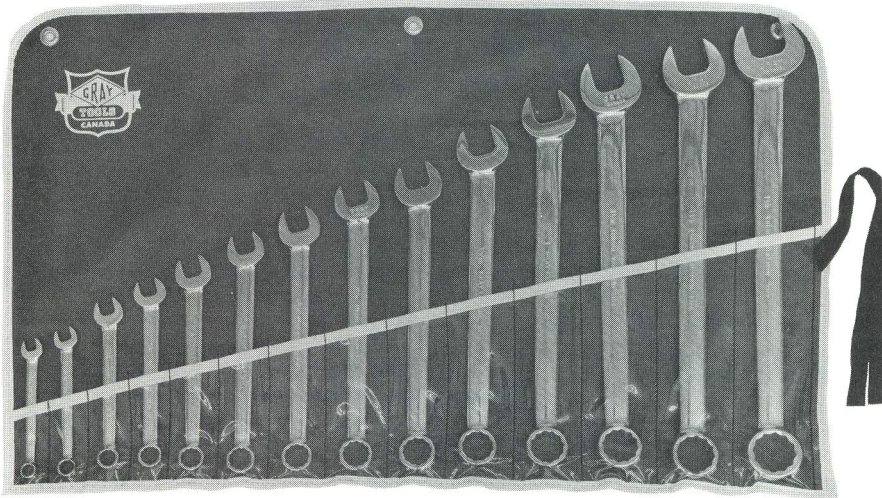


Since 1912

For Greater Efficiency

Metric Combination Wrenches & Sets

MC 214 Set — 7mm to 32mm



Packed in Roll No. 2014

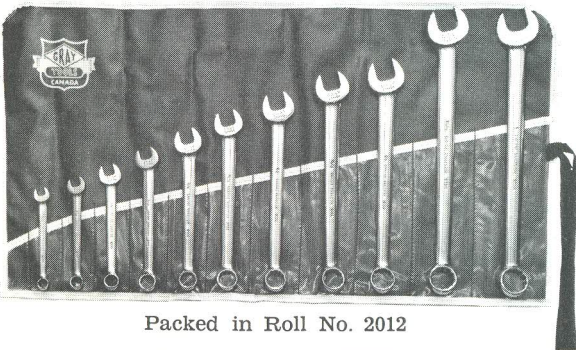
MM Opening	No.
7	MC 7
8	MC 8
10	MC 10
12	MC 12
14	MC 14
16	MC 16
18	MC 18

MM Opening	No.
20	MC 20
22	MC 22
24	MC 24
26	MC 26
28	MC 28
30	MC 30
32	MC 32

OPEN STOCK COMBINATION WRENCHES

No.	MM Opening	Length
MC 6	6	3½"
MC 7	7	3½"
MC 8	8	4"
MC 9	9	4½"
MC 10	10	5"
MC 11	11	5¾"
MC 12	12	5¾"
MC 13	13	6"
MC 14	14	6¾"
MC 15	15	6¾"
MC 16	16	7¾"
MC 17	17	8¾"
MC 18	18	8¾"
MC 19	19	9½"
MC 20	20	10½"
MC 21	21	10½"
MC 22	22	11"
MC 23	23	12¼"
MC 24	24	12¼"
MC 25	25	13½"
MC 26	26	13½"
MC 27	27	14¾"
MC 28	28	14¾"
MC 29	29	15¼"
MC 30	30	15¼"
MC 32	32	16½"
MC 36	36	21"
MC 41	41	23"
MC 46	46	26"
MC 50	50	28"

MC 212 Set — 9mm to 22mm



Packed in Roll No. 2012

MM Opening	No.
9	MC 9
10	MC 10
11	MC 11
12	MC 12
13	MC 13
14	MC 14
15	MC 15
17	MC 17
19	MC 19
20	MC 20
22	MC 22

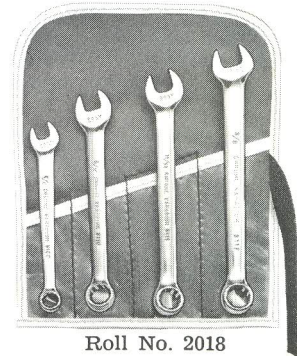
MC 208 Set 10mm to 17mm



Roll No. 2002

MM Opening	No.
10	MC 10
11	MC 11
12	MC 12
13	MC 13
14	MC 14
15	MC 15
17	MC 17

MC 204 Set 7mm to 10mm



Roll No. 2018

MM Opening	No.
7	MC 7
8	MC 8
9	MC 9
10	MC 10

Metric Wrenches

METRIC OPEN END WRENCHES



No.	Size	Length
ME 810	8 x 10mm	5"
ME 911	9 x 11mm	5"
ME 1213	12 x 13mm	5½"
ME 1416	14 x 16mm	6½"
ME 1517	15 x 17mm	7"
ME 1819	18 x 19mm	8"
ME 2021	20 x 21mm	9"

METRIC SET NO. ME 6



CONTENTS

No.	Size	Length
ME 810	8 x 10mm	5"
ME 911	9 x 11mm	5"
ME 1213	12 x 13mm	5½"
ME 1416	14 x 16mm	6½"
ME 1517	15 x 17mm	7"
ME 1819	18 x 19mm	8"

Packed in roll No. 2006

MRB 40

Metric Ratcheting Box Wrenches

Four sizes of ratcheting box wrenches

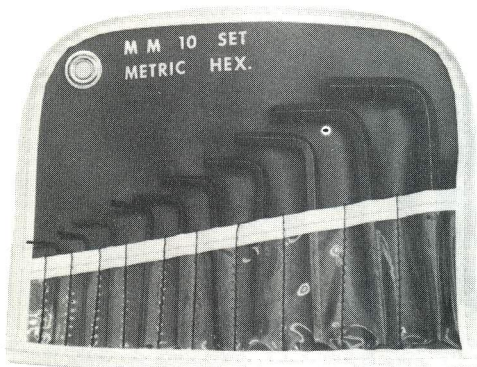


Sizes	Number
7mm & 8mm	MRB 78
9mm & 10mm	MRB 910
11mm & 12mm	MRB 1112
13mm & 14mm	MRB 1314

Packed in roll No. 2032

MM-10 LR 10 Piece Set Metric Allen Wrenches From 1.27 to 10 MM

Packed in roll No. 2034

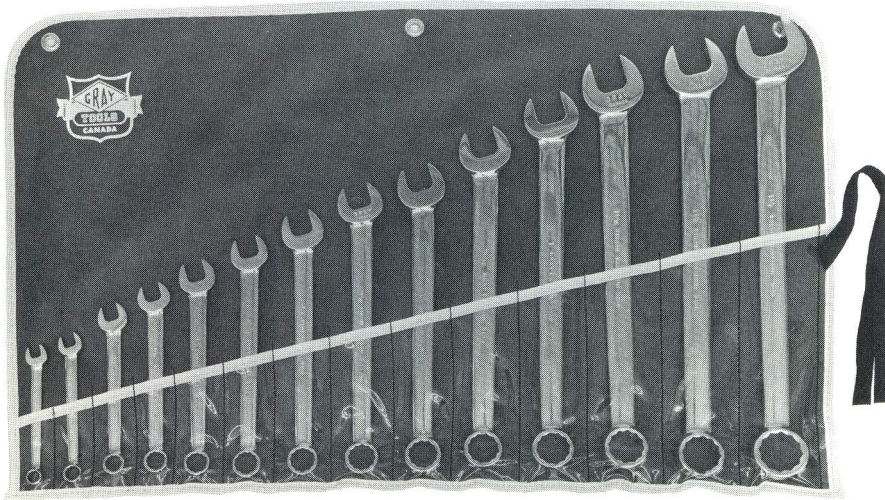


No.	Hex. Across Flats	Long Arm Length
MM-1	1.27 MM	1 ¾"
MM-1½	1.5 MM	2"
MM-2	2.0 MM	2 ¾"
MM-2½	2.5 MM	2 ¾"
MM-3	3 MM	2 ¾"
MM-4	4 MM	2 ¾"
MM-5	5 MM	2 ¾"
MM-6	6 MM	3 ¾"
MM-8	8 MM	4"
MM10	10 MM	4 ¾"

Combination Type Wrenches & Sets

Gray Tool Combination Wrenches have two types of openings, both the same size — a box socket for loosening very tight nuts or pulling them tighter, and an open end for fast turning. The box socket end has a 15° angle for hand clearance. The 15° angle open end allows turning a nut with only a 30° handle movement. These wrenches are drop forged from a high quality alloy steel, and are completely polished to a mirror-like finish and chrome plated.

TU 14 S Combination Wrench Set — 3/8" to 1 1/4"



No.	Openings	Length
3112	3/8"	5"
3114	7/16"	5 3/8"
3116	1/2"	6"
3118	9/16"	6 3/4"
3120	5/8"	7 3/4"
3122	11/16"	8 5/8"
3124	3/4"	9 1/2"
3126	13/16"	10 1/2"
3128	7/8"	11"
3130	15/16"	12 3/8"
3132	1"	13 1/2"
3134	1 1/16"	14 7/8"
3136	1 1/8"	15 3/4"
3140	1 1/4"	16 1/2"

Packed in Roll No. 2014

TU 7 Combination Wrench Set — 7/16" to 7/8"

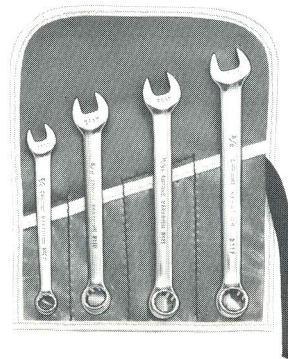
Complete Range of Combination Wrenches		
No.	Openings	Length
3108	1/4"	3 1/2"
3110	5/16"	4"
3111	11/32"	4 1/2"
3112	3/8"	5"
3114	7/16"	5 3/8"
3116	1/2"	6"
3118	9/16"	6 3/4"
3120	5/8"	7 3/4"
3122	11/16"	8 5/8"
3124	3/4"	9 1/2"
3126	13/16"	10 1/2"
3128	7/8"	11"
3130	15/16"	12 3/8"
3132	1"	13 1/2"
3134	1 1/16"	14 7/8"
3136	1 1/8"	15 3/4"
3140	1 1/4"	16 1/2"
3142	1 5/16"	16 1/2"
3144	1 3/8"	21"
3146	1 7/16"	21"
3148	1 1/2"	21"
3152	1 5/8"	23"
3154	1 11/16"	24"
3156	1 3/4"	26"
3158	1 13/16"	26"
3160	1 7/8"	27"
3164	2"	28"



No.	Openings	Length
3114	7/16"	5 3/8"
3116	1/2"	6"
3118	9/16"	6 3/4"
3120	5/8"	7 3/4"
3122	11/16"	8 5/8"
3124	3/4"	9 1/2"
3128	7/8"	11"

Packed in Roll No. 2002

TU 4 Combination Wrench Set — 1/4" to 3/8"

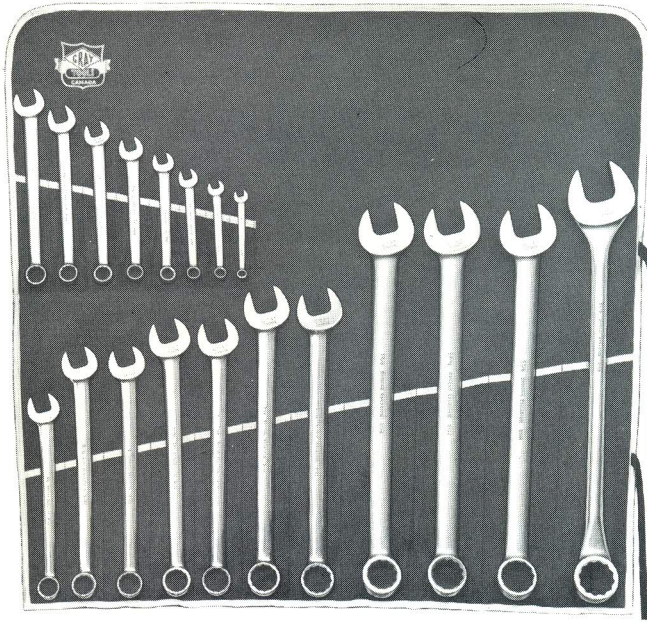


No.	Openings	Length
3108	1/4"	3 1/2"
3110	5/16"	4"
3111	11/32"	4 1/2"
3112	3/8"	5"

Packed in Roll No. 2018

Combination Type Wrench Sets

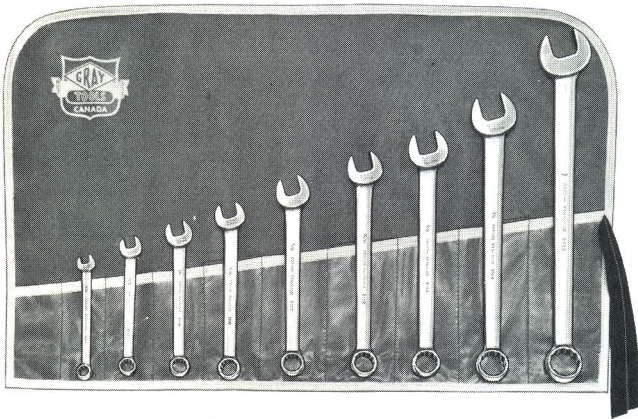
TU 19 Combination Wrench Set — $\frac{3}{8}$ " to $1\frac{5}{8}$ "



No.	Openings	Length
3112	$\frac{3}{8}$ "	5"
3114	$\frac{7}{16}$ "	$5\frac{3}{8}$ "
3116	$\frac{1}{2}$ "	6"
3118	$\frac{9}{16}$ "	$6\frac{3}{4}$ "
3120	$\frac{5}{8}$ "	$7\frac{3}{4}$ "
3122	$1\frac{1}{16}$ "	$8\frac{5}{8}$ "
3124	$\frac{3}{4}$ "	$9\frac{1}{2}$ "
3126	$1\frac{3}{16}$ "	$10\frac{1}{2}$ "
3128	$\frac{7}{8}$ "	11"
3130	$1\frac{5}{16}$ "	$12\frac{3}{8}$ "
3132	1"	$13\frac{1}{2}$ "
3134	$1\frac{1}{16}$ "	$14\frac{7}{8}$ "
3136	$1\frac{1}{8}$ "	$15\frac{3}{4}$ "
3140	$1\frac{1}{4}$ "	$16\frac{1}{2}$ "
3142	$1\frac{5}{16}$ "	$16\frac{1}{2}$ "
3144	$1\frac{3}{8}$ "	21"
3146	$1\frac{7}{16}$ "	21"
3148	$1\frac{1}{2}$ "	21"
3152	$1\frac{5}{8}$ "	23"

Packed in Roll No. 2015

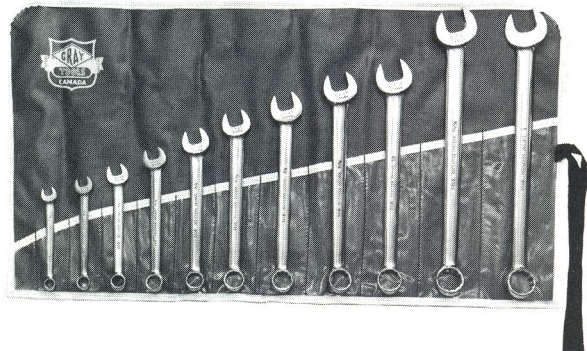
TU 9
Combination Wrench Set — $\frac{3}{8}$ " to 1"



No.	Openings	Length
3112	$\frac{3}{8}$ "	5"
3114	$\frac{7}{16}$ "	$5\frac{3}{8}$ "
3116	$\frac{1}{2}$ "	6"
3118	$\frac{9}{16}$ "	$6\frac{3}{4}$ "
3120	$\frac{5}{8}$ "	$7\frac{3}{4}$ "
3122	$1\frac{1}{16}$ "	$8\frac{5}{8}$ "
3124	$\frac{3}{4}$ "	$9\frac{1}{2}$ "
3128	$\frac{7}{8}$ "	11"
3132	1"	$13\frac{1}{2}$ "

Packed in Roll No. 2008

TU 11
Combination Wrench Set — $\frac{3}{8}$ " to 1"



No.	Openings	Length
3112	$\frac{3}{8}$ "	5"
3114	$\frac{7}{16}$ "	$5\frac{3}{8}$ "
3116	$\frac{1}{2}$ "	6"
3118	$\frac{9}{16}$ "	$6\frac{3}{4}$ "
3120	$\frac{5}{8}$ "	$7\frac{3}{4}$ "
3122	$1\frac{1}{16}$ "	$8\frac{5}{8}$ "
3124	$\frac{3}{4}$ "	$9\frac{1}{2}$ "
3126	$1\frac{3}{16}$ "	$10\frac{1}{2}$ "
3128	$\frac{7}{8}$ "	11"
3130	$1\frac{5}{16}$ "	$12\frac{3}{8}$ "
3132	1"	$13\frac{1}{2}$ "

Packed in Roll No. 2009

Sets Are Best

Open End Wrenches and Sets

A New Design — Streamlined, Slim, Trim, Light in Weight and Well Balanced

OPEN STOCK

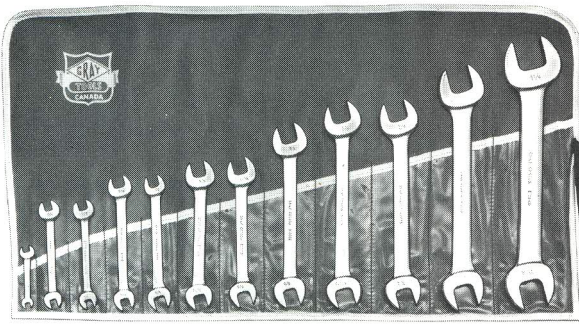
Wrench No.	Openings	Length	Head Thickness
E68	3/16 & 1/4	3	9/64
E810	1/4 & 5/16	3	9/64
E1012	5/16 & 3/8	4	7/64
E1214	3/8 & 7/16	5	7/32
E1216	3/8 & 1/2	5 1/2	15/64
E1416	7/16 & 1/2	5 1/2	15/64
E1418	7/16 & 9/16	6	7/4
E1618	1/2 & 9/16	6	1/4
E1619	1/2 & 19/32	6 1/2	17/64
E1820	9/16 & 5/8	6 1/2	17/64
E1822	9/16 & 11/16	6 1/2	17/64
E1922	19/32 & 11/16	7	7/32
E2022	5/8 & 11/16	7	7/32
E2024	5/8 & 3/4	7 1/2	19/64
E2224	11/16 & 3/4	8	5/16
E2228	11/16 & 7/8	9 3/4	11/32
E2426	3/4 & 13/16	9 3/4	11/32
E2428	3/4 & 7/8	9 3/4	11/32
E2628	13/16 & 7/8	9 3/4	11/32
E2632	13/16 & 1	11 3/8	13/32
E2830	7/8 & 15/16	11 3/8	13/32
E2832	7/8 & 1	11 3/8	13/32
E2834	7/8 & 1 1/16	11 3/8	13/32
E3032	15/16 & 1	11 3/8	13/32
E3034	15/16 & 1 1/16	11 3/8	13/32
E3134	31/32 & 1 1/16	11 3/8	13/32
E3236	1 & 1 1/8	11 3/8	27/64
E3436	1 1/16 & 1 1/8	11 3/8	27/64
E3240	1 & 1 1/4	12 1/2	29/64
E3440	1 1/16 & 1 1/4	12 1/2	29/64
E3640	1 1/8 & 1 1/4	12 1/2	29/64
E3642	1 1/8 & 1 5/16	12 1/2	29/64
E3842	1 3/16 & 1 5/16	12 1/2	29/64
E4042	1 1/4 & 1 5/16	14 1/2	17/32
E4044	1 1/4 & 1 3/8	14 1/2	17/32
E4046	1 1/4 & 1 1/2	14 1/2	17/32
E4048	1 1/4 & 1 1/2	14 1/2	17/32
E4446	1 3/8 & 1 1/2	14 1/2	17/32
E4448	1 3/8 & 1 1/2	14 1/2	17/32
E4652	1 7/16 & 1 5/8	15 1/2	9/16
E4852	1 1/2 & 1 5/8	15 1/2	9/16



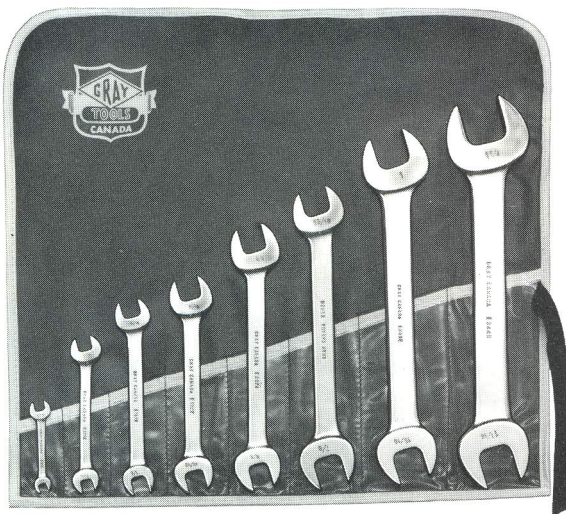
Standard Tappet Wrenches

No.	Size Openings	Length	Thickness Heads
122	1/2" & 9/16"	9 1/2"	5/32"
124 A	9/16" & 5/8"	9 1/2"	3/16"

No. OE 12 LR Set 1/4" to 1 1/4"



No. OE 8 LR Set 1/4" to 1 1/4"



No. OE 6 LR Set 3/8" to 1"



CONTENTS

No.	Openings
E 810	1/4 & 5/16
E 1012	5/16 & 3/8
E 1214	3/8 & 7/16
E 1418	7/16 & 9/16
E 1618	1/2 & 9/16
E 1820	9/16 & 5/8
E 2022	5/8 & 11/16
E 2024	5/8 & 3/4
E 2428	3/4 & 7/8
E 2628	13/16 & 7/8
E 3032	15/16 & 1
E 3440	1 1/16 & 1 1/4

Packed in Roll No. 2012

CONTENTS

No.	Openings
E 810	1/4 & 5/16
E 1214	3/8 & 7/16
E 1618	1/2 & 9/16
E 1922	19/32 & 11/16
E 2024	5/8 & 3/4
E 2628	13/16 & 7/8
E 3032	15/16 & 1
E 3440	1 1/16 & 1 1/4

Packed in Roll No. 2007

CONTENTS

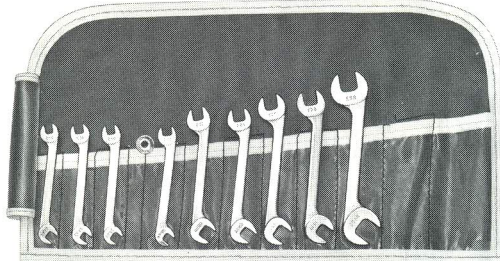
No.	Openings
E 1214	3/8 & 7/16
E 1618	1/2 & 9/16
E 1922	19/32 & 11/16
E 2024	5/8 & 3/4
E 2628	13/16 & 7/8
E 3032	15/16 & 1

Packed in Roll No. 2006

Ignition and Small Wrench Sets

PRECISION FORGED MINI WRENCHES

No. 16 LR Ignition Wrench Set

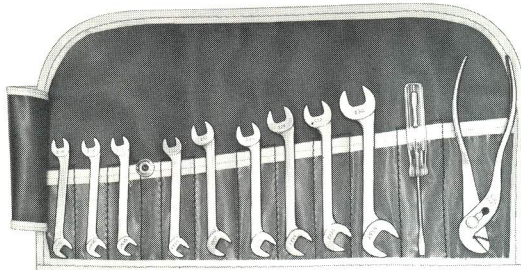


16 LR Set contains one each of numbers E 14 - E 30 in roll. No. 2028.

These wrenches have a different size opening in each end with head on one end at 15° angle and the other end at 60° angle. They are drop forged with accurately milled openings, heat treated their entire length and fully chrome plated with polished heads.

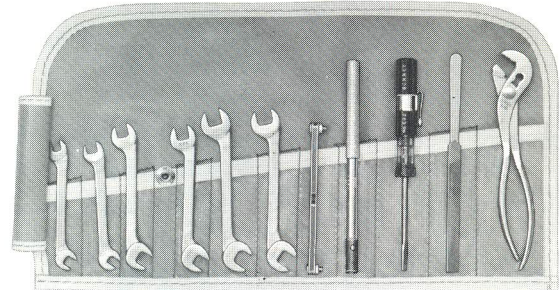
No.	Size Openings		Length	Thickness of Head
	15° End	60° End		
E 14	13/64"	15/64"	3 1/8"	7/64"
E 16	15/64"	13/64"	3 1/8"	7/64"
E 18	7/32"	1/4"	3 1/8"	7/64"
E 20	1/4"	7/32"	3 1/8"	7/64"
E 22	9/32"	5/16"	3 1/2"	1/8"
E 24	5/16"	9/32"	3 1/2"	1/8"
E 26	11/32"	3/8"	4"	9/64"
E 28	3/8"	11/32"	4"	9/64"
E 30	7/16"	1/2"	4 1/2"	5/32"

No. 17 LR Ignition Wrench Set



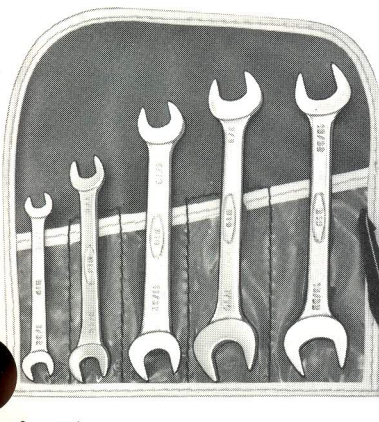
17LR Set contains one each of numbers E 14 - E 30 plus 518 plier and 001 pocket screw driver in roll. No. 2028.

22 LR Tune-up Kit



22 LR Set contains one each of E 18 - E 28 plus FG 6 A ignition feeler gauge, 127 screw starter, ignition file, EO 2 spark-testing screw driver, and 518 ignition plier packed in roll No. 2028.

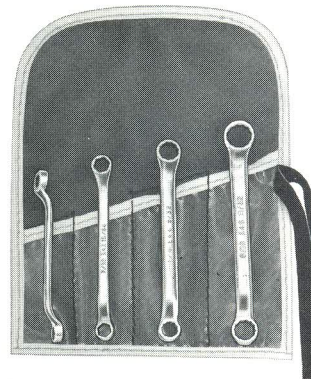
No. N 20 R Miniature Wrench Set



No.	Size Openings	Length
H 10	3/16" & 7/32"	2 1/2"
H 12	1/4" & 9/32"	3"
H 14	5/16" & 11/32"	3 3/4"
H 16	3/8" & 7/16"	4 1/8"
H 18	13/32" & 15/32"	4 1/8"

Packed in Roll No. 2018.

No. N 80 R Extra Small Box Wrench Set



No.	Size Openings	Length
E 40	3/16" & 13/64" SH	3"
E 42	7/32" & 15/64" SH	3 3/16"
E 44	1/4" & 9/32" DH	3 3/8"
E 46	5/16" & 11/32" DH	3 3/4"

Packed in Roll No. 2026.

Long Box and Special Wrenches

New Range of Double Offset Box Wrenches.
45° Angle Fully Polished. Drop Forged From Alloy Steel.

Long Offset Box Wrenches OPEN STOCK

No.	Openings	Length
2840	3/8" x 7/16"	7 5/8"
2843	1/2" x 9/16"	8 5/8"
2846	5/8" x 1 1/16"	9 3/4"
2849	3/4" x 25/32"	11 1/8"
2852	13/16" x 7/8"	12 1/2"
2855	1 1/16" x 1"	14 1/4"
2858	1 1/16" x 1 1/8"	15"
2861	1 1/8" x 1 3/8"	15"
2864	1 1/4" x 1 7/16"	18"

DO 10 Set 3/8" to 7/8"



DO 12 Set 3/8" to 1"



Short Type 45° Ends



No.	Double Hexagon Openings	Length
2384	3/8" & 7/16"	5 1/8"
2386	1/2" & 9/16"	5 3/4"
2387	5/8" & 1"	5 3/4"
2388	5/8" & 3/4"	8 3/8"

No.	Openings	Length
2840	3/8" x 7/16"	7 5/8"
2843	1/2" x 9/16"	8 5/8"
2846	5/8" x 1 1/16"	9 3/4"
2849	3/4" x 25/32"	11 1/8"
2852	13/16" x 7/8"	12 1/2"

Packed in Roll #2037

No.	Openings	Length
2840	3/8" x 7/16"	7 5/8"
2843	1/2" x 9/16"	8 5/8"
2846	5/8" x 1 1/16"	9 3/4"
2849	3/4" x 25/32"	11 1/8"
2852	13/16" x 7/8"	12 1/2"
2855	1 1/16" x 1"	14 1/4"

Packed in Roll #2029

Short Type Box Wrenches

This series of 30° Offset Short Box Wrenches are of the finest quality,



Single Hex.	Openings	Length
476	3/8" x 7/16"	4 1/4"
477	1/2" x 9/16"	5"
478	5/8" x 1 1/16"	5 3/4"

Set No. 470C — The three wrenches above, in clip. No. 1.

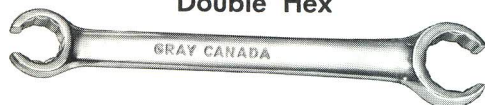


Double Hex.	Openings	Length
276	3/8" x 7/16"	4 1/4"
277	1/2" x 9/16"	5"
278	5/8" x 1 1/16"	5 3/4"
279	3/4" x 13/16"	6 1/4"

Set No. 270LR — Nos. 276, 277, 278, 279 in roll No. 2018.

Flare Nut Wrenches

Double Hex



No.	Double Hex Openings	Length
FL 1214	3/8" & 7/16"	5"
FL 1618	1/2" & 9/16"	6"
FL 2022	5/8" & 1 1/16"	7"
RF 54A	3/4" & 7/8"	8"
RF 54	3/4" & 1"	8"
RF 55A	7/8" & 1"	9 1/2"
RF 55	7/8" & 1 1/8"	9 1/2"

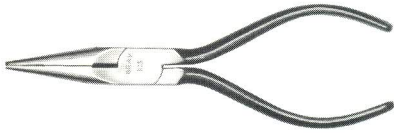
Single Hex



No.	Single Hex Openings	Length
FL 1214S	3/8" & 7/16"	5"
FL 1618S	1/2" & 9/16"	6"
FL 2022S	5/8" & 1 1/16"	7"

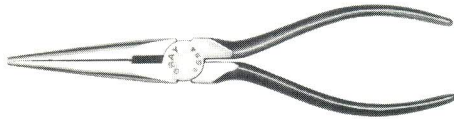
Automotive Pliers

No. B 25 — 6" Long Nose Side Cutting Plier



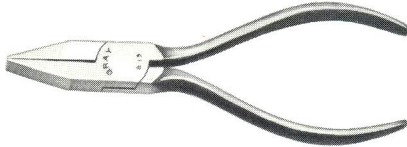
This long, spring tempered nose, side cutting, drop forged Plier is made from alloy steel carefully heat treated. The keen edged cutter will cut any non-hardened wire found in automotive work except the heavier ignition wires and battery cables. Black oxidized rust resistant finish with polished head.

No. B 654 — 7" Long Nose Side Cutting Plier



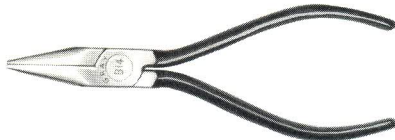
Made from carefully heat treated alloy steel, this spring tempered Automotive Plier will cut most non-hardened wire found in automotive work. Size 7".

No. B 13 — 5" Flat Nose Plier



A light Plier for fine work. Checker knurling in jaws gives firm grip. Smoothly working joint and handles shaped to fit the hand comfortably. No cutter. Polished head and gun metal handles.

No. B 14 — 5" Short Chain Nose Plier



A Plier for doing fine, close mechanical work. No cutter. Accurately machined joint insures smooth, easy operation. Polished head and gun metal handles.

No. B 46 — 8" Chain Nose Plier



A short nose, long reach, Chain Nose Plier for work in radio and television maintenance. Reaches easily into hard-to-get-at places without obstructing the view. Will form loops and bends of all sizes. Box joint construction resists loosening and twisting action and keeps it firm and easy working long after ordinary pliers are worn out. Polished head and Parkerized handles.

Diagonal Cutting Pliers

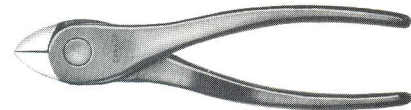
No. 41 — 4"

No. 942 — 5"



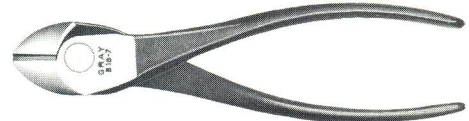
Drop forged of the finest quality alloy steel, these small size Electrician's Diagonal Cutting Pliers are a practical addition to any tool kit.

No. B 17 — 6" Diagonal Cutting Plier



A high grade medium size Diagonal Cutting Plier with accurately ground cutter jaws. Drop forged from alloy steel. A sure cutter and a real cotter pin puller.

No. B 18 — 7" Diagonal Cutting Plier



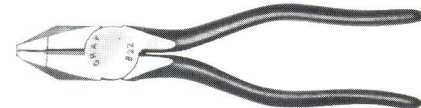
This high leverage Diagonal Cutting Plier is for heavy duty service. The accurately ground cutting edges assure easy cutting. Drop forged from alloy steel.

No. B 19 — 7" Heavy Duty Diagonal Cutting Plier

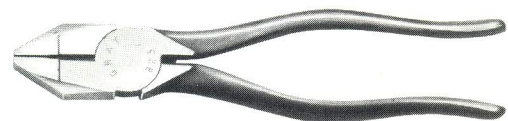


Drop forged of fine alloy steel, this Plier has hand-honed cutter knives that cut clean and will stand up. Designed to give great leverage in cutting as well as pulling cotter pins.

No. B 22 — 6" Lineman's Pliers



No. B 23 — 8" Lineman's Pliers



General utility standard Cutting Pliers for linemen and other electricians. Drop forged from alloy steel and carefully heat treated. Available in two sizes.

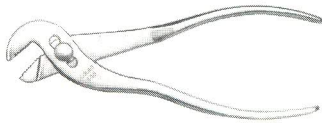


Since 1912

The Finest Name in Tools

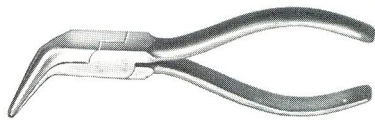
Automotive Pliers

•No. 518 — 5" Slip Joint Ignition Plier



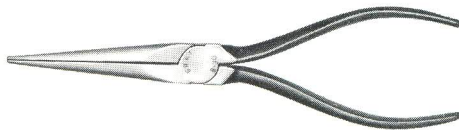
This Ignition Plier is designed for use on all ignition units and on other equipment where small nuts and bolts are encountered. Drop forged from alloy steel, the head is correctly designed providing three opening adjustments. It is spring tempered and fully chrome plated.

No. B 42 — 6" Curved Needle Nose Plier



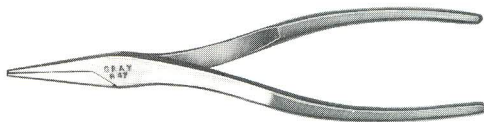
The long thin nose of this plier is bent at an angle which makes it very handy for reaching into far out-of-the-way corners. Jaws will not break off even though sprung or twisted out of shape. They will return to normal when pressure is released. Polished head and gun metal handles.

No. B 30 — 7" Duck Bill Wiring Plier



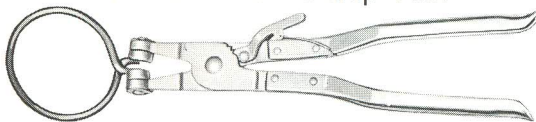
Square gripping jaws for work in confined quarters. The long thin jaws will reach into places where ordinary pliers will not go. Polished head and gun metal handles.

No. B 47 — 8" Duck Bill Pliers



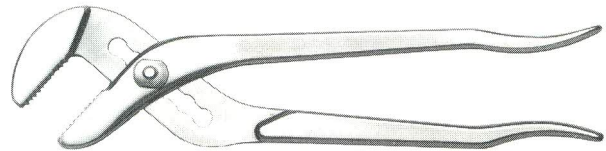
This is a very practical Plier for use when working on equipment where little operating space is available. The long leverage grips provide for powerful leverage. Ideal for use when working on carburetors, ignition or similar units. Black oxidized rust resistant finish with polished head.

No. 886 Hose Clamp Plier



Deep slots in jaw hold clamps securely. Jaws swivel through 180°, automatically locks in 3 positions.

No. 258 — 9½" Water Pump and Electricians' Lock Nut Plier

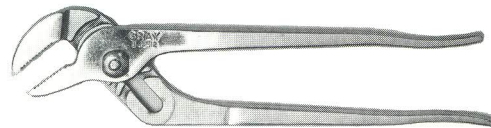


This improved quality multi-use drop forged alloy steel Plier is for use on adjustable packing and lock nuts. It has a positive grip action with six different opening adjustments. Maximum opening two inches. Polished head and fully chrome plated.

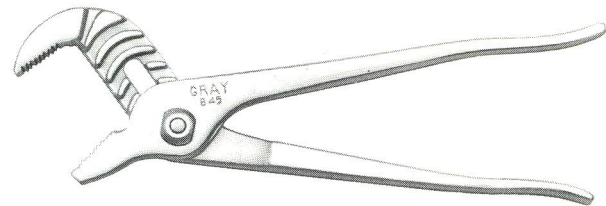
Rib Joint Utility Pliers

The design of this tool allows each rib joint to share the shearing load, thereby relieving tension on the bolt. Adjustable to 5 positions.

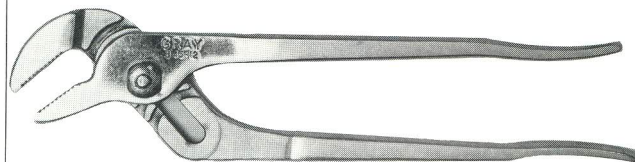
No. B 45 — 7"



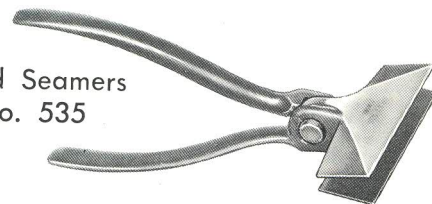
No. B 45 — 10"



No. B 45 — 12"



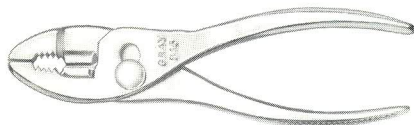
Hand Seamers
No. 535



An excellent tool for hand seaming. Overall length 8", working surfaces 1" x 3½", weight 1 lb. Drop forged from Alloy Steel. Fully heat treated.

Automotive Pliers

No. B 16 — 6" General Purpose Slip Joint Side Cutting Plier



A well balanced medium priced Plier. It provides strong gripping power and has excellent side cutter knives. Forged from alloy steel with knurled handles. Polished and fully finished in lustrous chrome.

No. B 41 — 6" Thin Bent Nose Plier 30° Angle Slip Joint



Finished with full polish and chrome plate.

Thin Straight Nose Slip Joint Plier

Specially adapted for work of a fine nature. The thin nose will reach and grip objects where the ordinary plier will not. Full finish and chrome plate.

No. B 55 — 5"



No. B 56 — 6"



No. LS 26 — 6" Thin Nose Slip Joint Side Cutting Plier

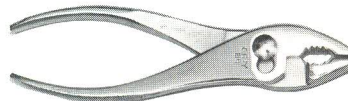


This is the regular Thin Nose Plier with a side cutter added. Ideal for general use. Chrome plate with full finish.

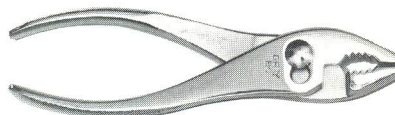
Combination Pliers

Sturdily built, forged, heat treated and plated Slip Joint Bolted Combination Pliers in four lengths.

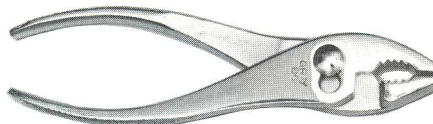
No. B 5 — 5"



No. B 6 — 6"



No. B 8 — 8"



No. B 10 — 10"



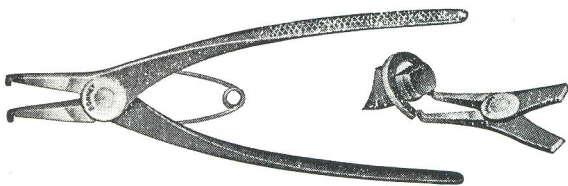
No. B 29 — 7" Mechanics' Slip Joint Side Cutting Plier



Forged from alloy steel, hardened and tempered, this plier is designed for hard usage. The sharp cutting side knives are ground to assure their longer life. The well designed head has a flush rivet on one side. Polished head and oxidized finish.

Automotive Pliers

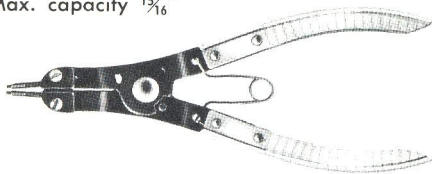
No. • B 21 Lock Ring Plier



Outside of jaws are toothed to prevent any possibility of slipping. Plier will spread any lock ring washer up to 1 1/4" diameter. Size 8".

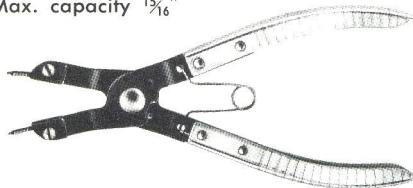
No. KD446 External Lock Ring Plier

Max. capacity 1 5/16"

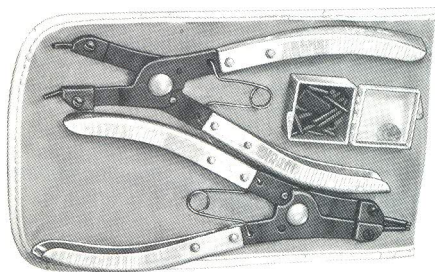


No. KD445 Internal Lock Ring Plier

Max. capacity 1 5/16"

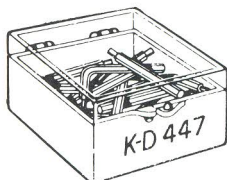


No. KD444 Lock Ring Plier Set



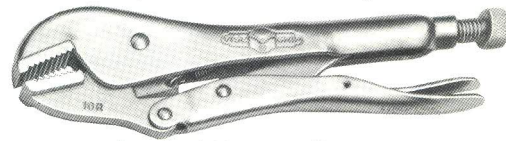
Interior and exterior snap Ring Pliers with Interchangeable Points. Sold only in a complete set consisting of 2 pair of pliers and full set of replaceable points. Packed in Plastic Box.

No. •KD447 Points



This set of Interchangeable tips can be used with numbers KD445, KD446 and is included with KD444.

Vise Grip Pliers with Easy Release



Standard Type as Illustrated

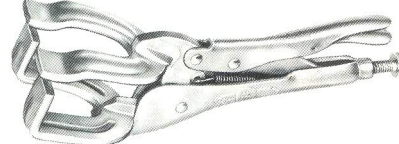
7 R 7" long — Opens up to 1 1/8"
10 R 10" long — Opens up to 1 1/4"



Thin Nose Type with Side Cutter

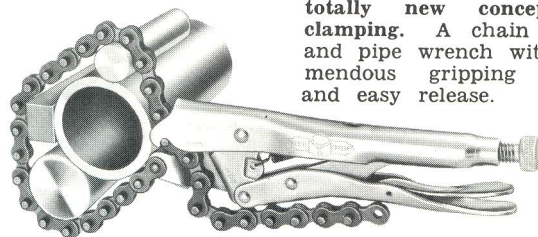
5 WR 5" long — Opens up to 1 1/4"
7 WR 7" long — Opens up to 1 5/8"
10 WR 10" long — Opens up to 1 7/8"

No. 9 R Vise Grip Welding Clamp



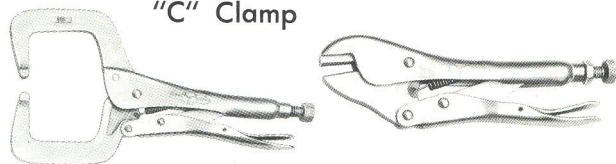
with
New
Easy Release

20 R Vise Grip Chain Wrench

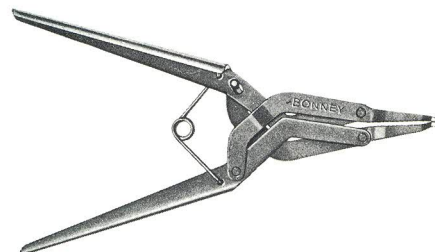


First of its kind . . . a totally new concept in clamping. A chain clamp and pipe wrench with tremendous gripping power and easy release.

No. 11 R Vise Grip "C" Clamp No. RR Pinch Off Tool



B 684 Parallel Pliers



The unique design of these pliers enables the jaws to remain parallel when removing snap rings.

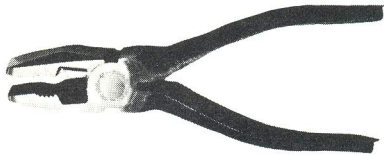
Automotive Pliers

Heavy Duty Drop Forged Linesmen and Engineers Pliers

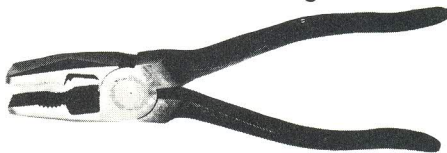
with side cutter and pipe grip jaws.

Drop forged from alloy steel and carefully heat-treated to give real toughness in jaws and cutting edges. Finely polished heads and smooth black handles. Box joint construction gives these pliers a smooth-working action to keep them working for you long after ordinary pliers have worn out. Available in 6 inch, 7 inch and 8 inch sizes as listed below.

B 136 — 6" Long



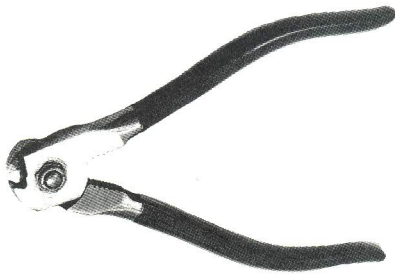
B 137 — 7" Long



B 138 — 8" Long

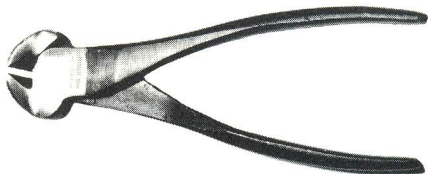


B 958 Cable Cutters



Induction hardened shear cutters for wire and stranded cable.

B 968 End Nipper



Drop forged with polished head, natural block handles.

B 951 Wire Stripper



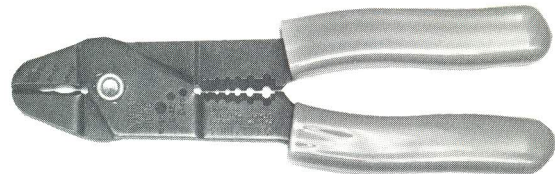
Multi-adjustments are made by means of side screw. Equipped with opening spring.

WS 150 Wire Stripper



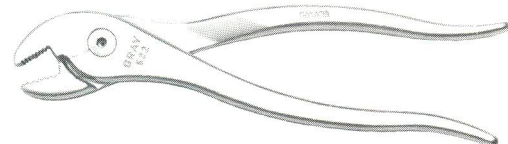
Strips and cuts wire 12-24 gauge. Simply dial wire size for precision wire stripping. A quality tool for the professional.

1963 Crimping Tool



Made of the finest quality steel it cuts wire, strips wire, crimps terminals (insulated & non-insulated) and slices bolts (6 sizes).

No. 522 — 7½" Angle Nose Battery Plier



The handiest drop forged alloy steel Plier ever designed for use when loosening or tightening the terminal nuts on battery cables. Polished head and fully finished in chrome.

No. 524 Battery Terminal Spreader



Spreads battery cable terminals. A great help when removing or installing battery cables. Heat treated nickel plated with painted handles. 7⅞" long.

For Greater Efficiency



Since 1912

Regular Screw Drivers

Drivers are made with forged one-piece blades, from special alloy steel, carefully heat treated over their entire length. The handles are of the popular transparent type, which combines toughness and durability with attractive appearance. Blades are formed with an upset shoulder, against which the handles are forced, and the method of anchoring the shank eliminates the possibility of loose handles.

Adjusting Screw Driver

No. • 001 Pocket Size



Tip $\frac{1}{8}$ " , overall length $4\frac{3}{8}$ " .

No. • 00A Midget



Tip $\frac{1}{16}$ " , Length $2\frac{5}{16}$ "



No.	Length of Blade	Width of Tip	Overall Length
S 01	$1\frac{1}{2}$ "	$\frac{1}{4}$ "	$3\frac{1}{2}$ "
S 02	1"	$\frac{7}{32}$ "	$2\frac{3}{4}$ "

Round Shank



Gray-Tool Round Shank Screw Drivers are ideal for automotive mechanics. They are made with blades ranging from 4" to 12", and all tips are taper ground, with the entire length of the blades finely polished.

No.	Length of Blade	Width of Tip	Overall Length
04	4"	$\frac{1}{4}$ "	$7\frac{1}{2}$ "
06	6"	$\frac{5}{16}$ "	$10\frac{1}{4}$ "
08	8"	$\frac{3}{8}$ "	$12\frac{1}{2}$ "
010	10"	$\frac{3}{8}$ "	$14\frac{1}{2}$ "
012	12"	$\frac{7}{16}$ "	$16\frac{3}{4}$ "

Square Shank



Gray-Tool Square Shank Screw Drivers are primarily designed for strength and are confidently recommended for heavy work.

No.	Length of Blade	Width of Tip	Overall Length
S 04	4"	$\frac{5}{16}$ "	$7\frac{1}{2}$ "
S 06	6"	$\frac{7}{16}$ "	$10\frac{1}{4}$ "
S 08	8"	$\frac{1}{2}$ "	$12\frac{1}{2}$ "
S 012	12"	$\frac{9}{16}$ "	$16\frac{3}{4}$ "

Electricians



Gray-Tool Electricians' Screw Drivers, regardless of length, are made from $\frac{3}{16}$ " stock, which makes them invaluable for reaching hard-to-get-at-screws.

No.	Length of Blade	Width of Tip	Overall Length
003	3"	$\frac{3}{16}$ "	$6\frac{1}{2}$ "
006	6"	$\frac{3}{16}$ "	$9\frac{1}{2}$ "
0010	10"	$\frac{3}{16}$ "	$13\frac{1}{2}$ "

05-2 $\frac{1}{2}$ Screw Driver



One of the most powerful screw drivers ever manufactured. This extremely heavy duty screw driver will

deliver tremendous torque, yet is small enough to get into a confined space.

No.	Length of Blade	Width of Tip	Overall Length
05-2 $\frac{1}{2}$	$2\frac{1}{2}$ "	$\frac{1}{2}$ "	7"



S 027

A huge two handed square-shanked screw driver for very heavy industrial and construction uses.

No.	Length of Blade	Width of Tip	Overall Length
S 027	$18\frac{1}{2}$ "	$\frac{9}{16}$ "	27"

Robertson, Phillips & Spinner Drivers

Phillips Screw Drivers Composition Handle



Phillips screws are rapidly becoming very popular, and every mechanic should have one or more screw drivers of this type.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diam.		
• CP 0	3"	1/8"	6"	0 and 1
• CP 1	3"	3/16"	6"	2, 3 and 4
• CP 2	4"	1/4"	8"	5 to 9 Inc.
• CP 3	6"	5/16"	10 1/4"	10 to 16 Inc.
• CP 4	8"	3/8"	12 1/2"	18 and larger
• CP 12	13 1/2"	1/4"	17 3/4"	5 to 9 Inc.

Special Heavy-Duty Phillips Screw Drivers

These extra heavy duty, blue-handled Phillips Screw Drivers have been specially heat treated to give them greater strength than the regular Phillips Screw Driver. Fully guaranteed, they are designed for heavy industrial use.



No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diam.		
CPX 1	3"	3/16"	6"	2, 3 and 4
CPX 2	4"	1/4"	8"	5 to 9 Inc.

Short Phillips Screw Drivers



Plastic Handle

No.	Blade		Fits Phillips Screws
	Length	Diameter	
SP 11	1"	3/16"	No. 4 and Smaller
SP 12	1 3/8"	1/4"	No. 5 to No. 9 inc.

Robertson Screw Drivers

The extensive use of Robertson screws makes it necessary for all mechanics to own a set of Robertson Screw Drivers. Hand Drivers may be distinguished by the different color handles.

Chart showing sizes of various Socket Screws Driven by each driver

Color	Stubby	Junior	Jumbo	Wood Screws	Machine Screws
Orange	—	RB 00	—	1 & 2	1 & 2
Yellow	—	RB 0	—	3 & 4	3 & 4
Green	RB 121	RB 1 7 1/2" L.	RB 221	16 & Larger 5, 6 & 7	5/16" & Larger 5, 6 & 7
Red	RB 122	RB 2 7 1/2" L.	RB 222	8 & 9	# 8 & 10
Black	RB 123	RB 3 7 1/2" L.	RB 223		
			RB 224	10, 12 & 14	# 12 & 1/4



Stubby Type



Junior Type



Jumbo type

Spinner Wrenches



Designed especially for reaching small nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a hexagon socket on the end that grips the nut firmly. Shanks and sockets have plated finish. The composition handles are fluted for a firm grip.

No.	Hexagon Opening	Overall Length	Drill Depth	Color Code
CH 06	3/16"	6"	1 1/8"	Black
CH 08	1/4"	6"	2 1/4"	Red
CH 10	5/16"	6"	2 1/4"	Amber
CH 11	11/32"	6"	2 1/4"	Green
CH 12	3/8"	6"	5"	Blue
CH 14	7/16"	7 1/8"	5"	Brown
CH 16	1/2"	7 1/8"	5"	Red

The Finest Name in Tools



Since 1912

Screw Driver Displays

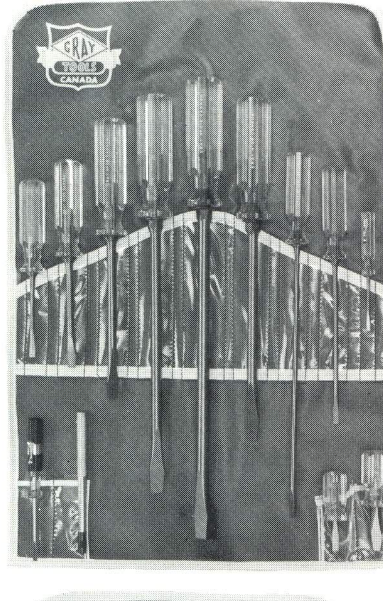
Display Board # SDD1



Contains 48 round shank screw drivers. See list of contents. Packed in display block No. 1954

CONTENTS

No.	Qty.
00 A	6
001	6
003	6
006	6
0010	3
04	6
06	6
08	3
010	3
012	3



SD 13 LR
Complete Standard
Blade Screw
Driver Set

Contents

S 01	003
S 02	006
04	0010
06	E 02
08	001
010	127
012	

Roll No. 2017.

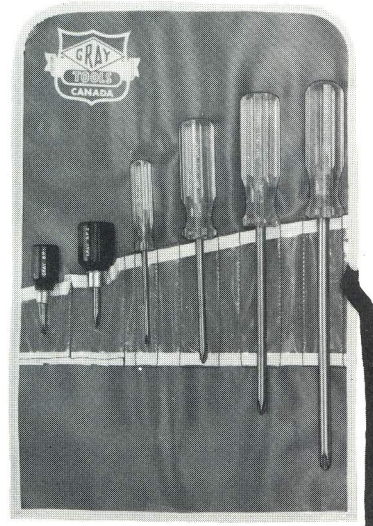
Display Board # SDD2



Contains 30 regular square shank, stubby and ignition screw drivers. See list of contents. Packed in display block No. 1955

CONTENTS

No.	Qty.
E 02	3
S 01	3
S 02	3
S 04	6
S 06	6
S 08	3
S 012	3



SD 6 LR
Phillips Screw
Driver Set

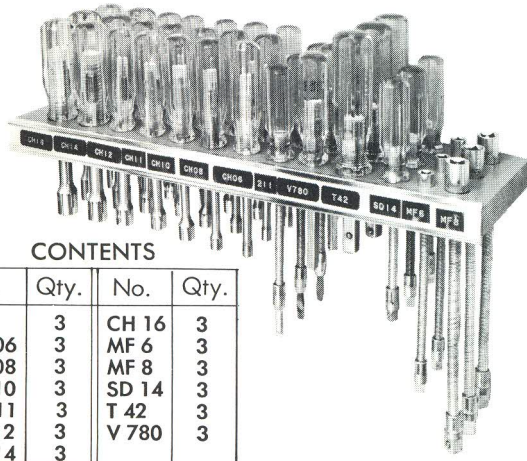
Contents

SP 11
SP 12
CP 1
CP 2
CP 3
CP 4

Roll No. 2016

Display Board # SDD3

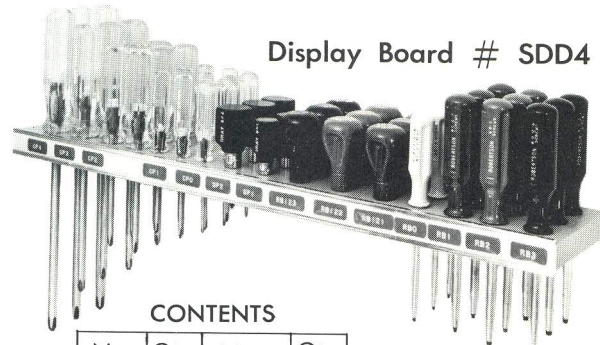
Contains 39 items which include nut spinners, flexible screw and extensions, 1/4 to 3/8 drive handles. See list of contents. Packed in display block No. 1956.



CONTENTS

No.	Qty.	No.	Qty.
211	3	CH 16	3
CH 06	3	MF 6	3
CH 08	3	MF 8	3
CH 10	3	SD 14	3
CH 11	3	T 42	3
CH 12	3	V 780	3
CH 14	3		

Display Board # SDD4



CONTENTS

No.	Qty.	No.	Qty.
CP 0	3	RB 2	3
CP 1	6	RB 3	3
CP 2	6	RB 121	3
CP 3	3	RB 122	3
CP 4	3	RB 123	3
RB 0	3	SP 11	3
RB 1	3	SP 12	3

Has a complete range of Phillips and Robertson Screw Drivers. Contains 48 pieces. See contents. Packed in display block No. 1957

Special Screwdrivers and Pick-up Tools

No. 7035 All-Magnetic Screw Driver



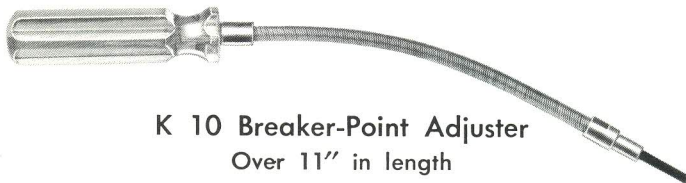
Virtually 4 screwdrivers in one. Spare Blades store in handle. Fully magnetized, 4 bits, 2 slotted #1, #2 phillips

No. 7036 Bit Pack



Hold-E-Zee Screw Drivers

No.	Blade Size	Overall Length
TR 3	5/32" x 3"	5 3/4"
TR 4	5/32" x 4"	7 1/4"
TR 6	5/32" x 6"	9 5/8"
TR 8	5/32" x 8"	11 5/8"
TS 4	5/32" x 4"	8"

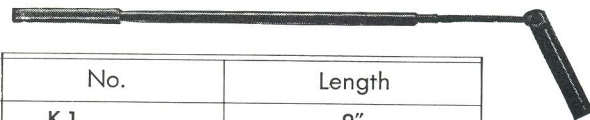


K 10 Breaker-Point Adjuster

Over 11" in length

Easily reaches and adjusts contact points or needle valves while engine is running.

Magnetic Pick-Up Tools



No.	Length
K 1	9"
K 2	27" extended
K 3 (Flexible)	17 1/2"

The K 2 has a telescope type extension handle. These extremely useful tools have a powerful magnet in the hinged end.



K 906 Pocket Clip Type, with Alnico Magnet, picks up 3/4 lb. or more. Displayed in K906 deal. (12)

Mechanical Fingers



No.	Reach	Length
K 4	4"	6 3/4"
K 6	6"	8 3/4"
K 8	10"	12 3/4"
K 9	Fully Flexible 15"	18"
K 12	12"	14 3/4"
K 24	24"	26 3/4"
K 36	36"	38 3/4"

For starting screws, inserting and removing small washers, pins and similar objects, this tool is invaluable. The two spring steel fingers are forced open by pressure on the plunger. When pressure is released, jaws grip object firmly.

No. • E 02 Neon Tube Pocket Type



Neon Tube in the handle for testing.

S019 Uni Driver

With Non-Turning Cap



Has 8 Assorted Blades

No. SA 1 Scratch Awl



Scratch awl overall length 7". Made from High Quality alloy steel.

Screw Starters



The time-saving answer to exasperating fumbling with short screws in tight places. Starts or removes all size slot type screws in difficult, inaccessible places with no interfering claws. Grips the screw inside the screw slot with a 15-pound pull . . . Releases automatically and sets as screw is tightened.

Regular Aluminum

No.	Length
125	2 1/2"
127	5"
129	9"
215	15"
224	24"

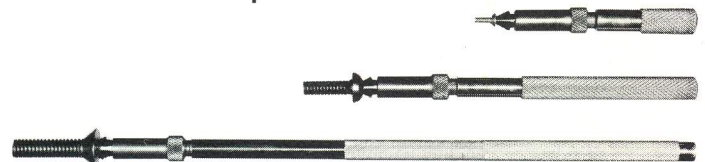
Nylon Non-Conductor

No.	Length
NH 2	2 1/2"
NH 6	6 1/2"
NH 9	9"
Special lengths upon request	

Displayed in 579 deal

Displayed in NH269 deal

Phillips Screw Starters



Regular Aluminum Handle

Number	Length
P 173	3"
P 175	5"
P 177	7"
P 179	9"

The Finest Name in Tools



Since 1912

Punches and Chisels

Gray Tool has spared no effort to offer the best in these types of tools. These quality Punches and Chisels are forged from special Silicon-Manganese alloy steel and are carefully heat-treated. Mechanics find that the bits are hard and tough enough to work on any untempered material, but still sufficiently soft to be sharpened with a file. They have well crowned, comparatively soft heads, which reduce chipping and allow them to be readily redressed when battered. Blade tips and heads full polished, handles finished in baked blue enamel with orange inlay markings.



PIN PUNCHES

No.	Size Stock	Point Diameter	Length
C 28 B	3/8"	3/32"	4 5/8"
C 28	3/8"	1/8"	5"
C 28 A	3/8"	3/32"	5 1/4"
C 29	3/8"	3/16"	5 1/2"
C 29 A	1/2"	7/32"	6 1/4"
C 30	1/2"	1/4"	6 1/2"
C 31	1/2"	5/16"	6 3/4"



LONG TAPER PUNCHES

No.	Size Stock	Point Diameter	Length
C 25 A	3/8"	1/8"	8 1/4"
C 25	3/8"	5/32"	8 1/4"
C 26	1/2"	3/16"	9 1/4"
C 26 A	1/2"	7/32"	9 1/4"
C 50	1/2"	1/4"	9 3/4"
C 51	1/2"	5/16"	9 3/4"



SOLID PUNCHES

No.	Size Stock	Point Diameter	Length
C 21	3/8"	1/16"	5 5/8"
C 22	3/8"	3/32"	5 13/16"
C 23	3/8"	1/8"	6"
C 23 A	3/8"	5/32"	6 1/4"
C 24	3/8"	3/16"	6 7/16"
C 24 A	1/2"	7/32"	6 11/16"
C 27	1/2"	1/4"	6 15/16"
C 27 A	1/2"	5/16"	7 1/4"



PRICK PUNCH

No.	Size Stock	Length
C 32	3/8"	5"



CENTRE PUNCH

No.	Size Stock	Length
C 34	3/8"	5 1/4"
C 35	1/2"	7"



FLAT CHISELS

No.	Size Stock	Width of Cut	Length
C1	3/16"	1/4"	4"
C1A	1/4"	5/16"	5"
C 2	3/8"	1/2"	5 1/2"
C 3	1/2"	5/8"	6 1/4"
C 4	5/8"	3/4"	6 1/2"
C 5	3/4"	7/8"	7 1/2"
C 6	7/8"	1"	8"
C 7	1"	1 1/4"	8 1/2"



CAPE CHISELS

No.	Size Stock	Width of Cut	Length
C 11	3/8"	1/8"	4 1/2"
C 12	1/2"	1/4"	6 1/4"
C 13	5/8"	3/8"	7"



DIAMOND POINT CHISELS

No.	Size Stock	Width of Cut	Length
C 15	1/2"	1/4"	6 1/2"
C 16	5/8"	3/8"	7"



ROUND NOSE CHISELS

No.	Size Stock	Width of Cut	Length
C 18	1/2"	1/4"	6 1/4"
C 19	5/8"	3/8"	7"



RIVET BUSTER

No.	Size Stock	Width of Cut	Length
C 36	3/4"	1 3/16"	12"

Heavy Duty Punches, Pry Bars and Sets



LINING-UP PUNCHES (Silico-Manganese Steel)

No.	Size Stock	Point Diameter	Length
8385	3/4"	1/4"	18"
8386	5/8"	1/4"	15"



LONG FLAT CHISELS

No.	Size Stock	Width of Cut	Length
C 9	5/8"	3/4"	12"
C 10	3/4"	7/8"	14"
C 14	7/8"	1"	18"



PRY BAR — TAPERED END

No.	Size Stock	Length
C 39	3/16"	15 1/4"



PRY OR PINCH BAR

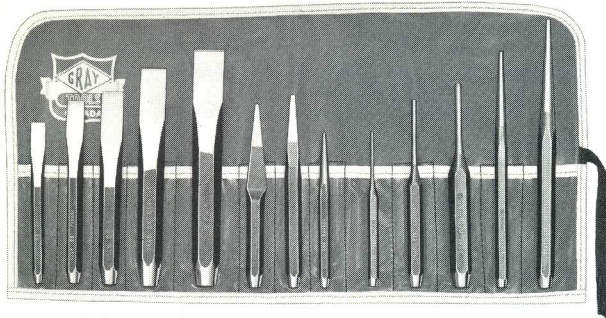
No.	Size Stock	Length
C 38	5/8"	16"

HEAVY DUTY PRY BAR



No.	Size Stock	Length
C 40	3/4"	24"

No. C 46-LR Punch and Chisel Set



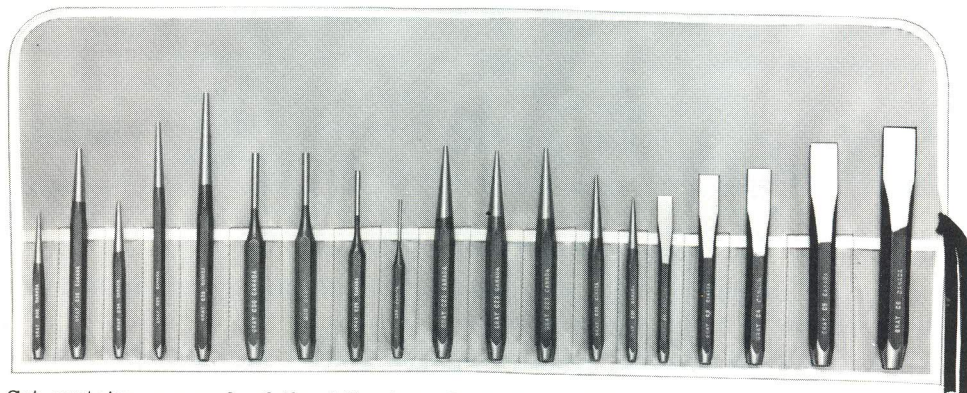
Set contains one each of the following:
C2, C3, C4, C5, C6, C12, C15, C25, C26, C28,
C29, C30, C34 Roll No. 2023

No. C 45-LR Flat Chisel Set



Set contains one each of the following:
C2, C3, C4, C5, C6 Roll No. 2022

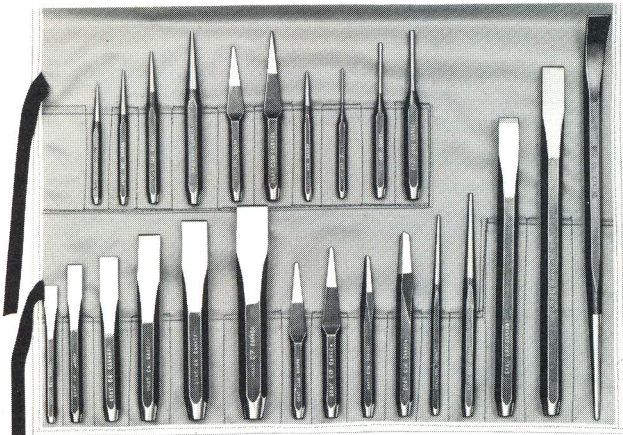
C48-LR PUNCH AND CHISEL SET



Set contains one each of the following: In Roll No. 2025
C2, C3, C4, C5, C6, C21, C22, C23, C24, C27, C28, C29, C30, C31, C25, C26, C32, C34, C35

Punch and Chisel Sets

No. C 47-LR Punch and Chisel Set

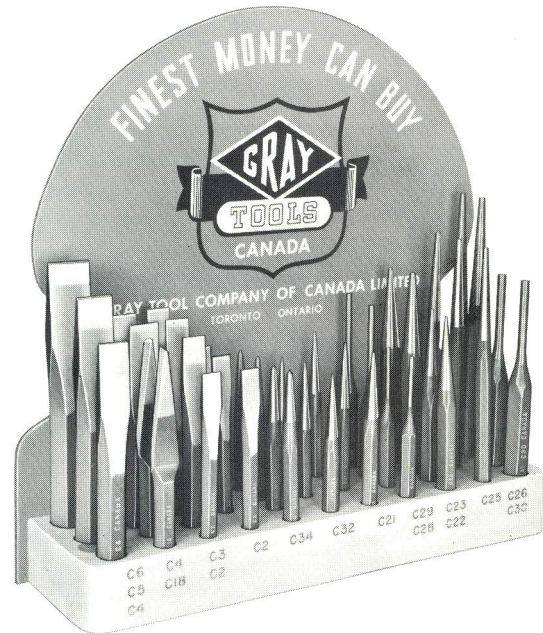


Set contains one each of the following:

C 2	C 10	C 21
C 3	C 15	C 22
C 4	C 16	C 23
C 5	C 18	C 28
C 6	C 19	C 29
C 7	C 25	C 30
C 12	C 26	C 34
C 13	C 32	C 36
		C 38

Packed in Roll No. 2024

No. PC 39 Dealer's Merchandiser

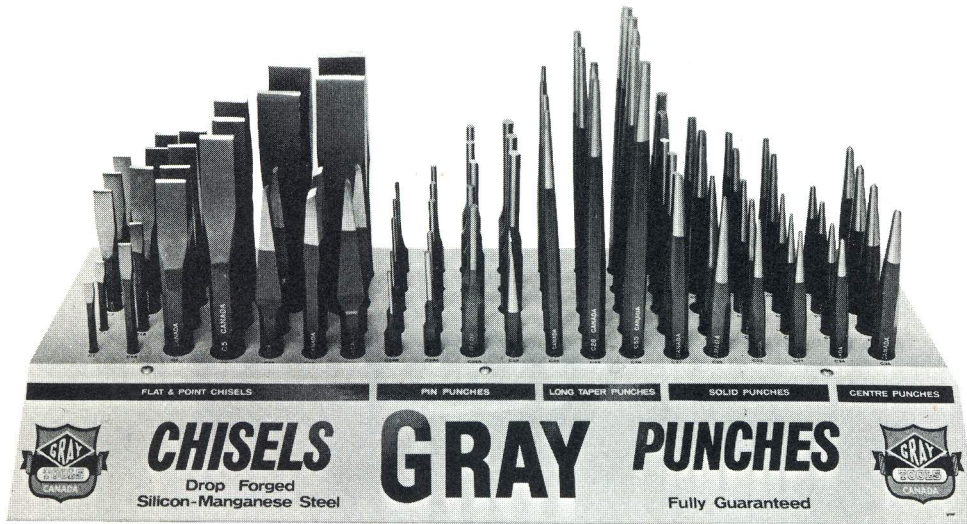


Display contains the following:

1 — C 6	3 — C 21	3 — C 3	2 — C 23
1 — C 5	2 — C 28	4 — C 2	3 — C 25
3 — C 4	2 — C 29	4 — C 34	2 — C 26
2 — C 18	2 — C 22	3 — C 32	2 — C 30

Displayed in Block No. 1950

THE PC 40 PUNCH & CHISEL DISPLAY



CONTENTS

Flat and point chisels, Pin punches, Long Taper punches, Solid punches and Centre punches.

— The Display is free with merchandise.

C1-2	C21-3	C27A-2
C1A-2	C22-3	C28-3
C2-3	C23-3	C28A-2
C3-3	C23A-2	C28B-2
C4-4	C24-2	C29-3
C5-3	C24A-2	C29A-2
C6-2	C25-3	C30-3
C7-2	C25A-2	C31-3
C12-2	C26-3	C32-2
C15-2	C26A-2	C34-4
C18-2	C27-3	C35-4
		C50-3
		C51-2

- Designed to hold the full range of Gray Punches & Chisels.
- Complete, but not overloaded with slow movers, for the display has been mathematically selected and arranged for maximum profits and turnover.
- In addition to convenient product number's marked around each slot, the style of the punch or chisel is printed neatly on the eye-catching front panel.
- The PC40 should be your answer to Punch & Chisel Sales.

Micrometer Torque Products

Micrometer Adjustable Torque Wrenches

- Signaling feature — hear the click and feel the break when preset torque is reached.
- Torque setting fixed when locked into place, it cannot accidentally change.
- Accuracy $\pm 2\%$.
- Minimum operating fatigue.
- Lightweight and slim.
- Torques accurately in a positive or negative direction.
- An excellent production or service tool.

$\frac{3}{8}$ " Drive Models — Inch or Foot lbs.

Model No.	Capacity	Graduations	Drive
3 SDR 750F	60-750 in. lbs.	5 in. lbs.	$\frac{3}{8}$ "
3 SDR 75F	5-75 ft. lbs.	$\frac{1}{2}$ ft. lb.	$\frac{3}{8}$ "
3 SDR 10MF	2-10 M. Kgs.	.05 M. Kg.	$\frac{3}{8}$ "



$\frac{1}{2}$ " Drive Model — Foot lbs.

Model No.	Capacity	Graduations	Drive
4 SDR 150F	10-150 ft. lbs.	1 ft. lb.	$\frac{1}{2}$ "
4 SDR 1600F	700-1600 in. lbs.	10 in. lb.	$\frac{1}{2}$ "
4 SDR 20MF	5-20 M. Kgs.	.1 M. Kg.	$\frac{1}{2}$ "



Torque-Limiting Screwdriver

- Easy to operate — simply dial torque, insert bit, and tool is ready for the job.
- Completely calibrated and adjustable.
- Clutch releases automatically when torque is reached — *no* over-torque.
- Capacity: 2-35 in. lbs.
- Accurate $\pm 3\%$.
- Uses standard bits, sockets and adaptors.
- Bring precise accuracy to production lines.
- Can be preset and sealed for production use.

Range	Graduation	Length	Grip Dia.	Weight	Hex Drive
2-36 in. lbs.	2 in. lbs.	7 $\frac{1}{2}$ "	1 $\frac{3}{8}$ "	8 oz.	$\frac{1}{4}$ "

No. C 36

Also Available in Metric.



No. 00-24 SQ. Drive Adapter — converts the C-36 Torque Screwdriver to $\frac{1}{4}$ " socket use.

Miniature Bits $\frac{1}{4}$ " Hex Drive

Slotted Bits

Model No.	Blade Width	Blade Thickness
SL-055	.055"	.010"
SL-070	.070"	.012"
SL-080	.080"	.015"
SL-100	.100"	.015"

Phillips Bits

Model No.	Bit Point Size	Screw Size (Any Type or Head Style)
PH-0	0	0, 1
PH-1	1	2, 3, 4

Hex Bits

Model No.	Bit Hex Size	Set Screw Size	Socket Head		Flat Head	Button Head
			36 Series	60 Series		
SS-028	.028"	0				
SS-035	.035"	1, 2			0, 1	0
SS-050	.050"	3, 4	0, 1	0	2	1, 2
SS-062	$\frac{1}{16}$ "	5, 6	2	1	3, 4	3, 4

No. 2789 Adapter — required for use with the above bits.



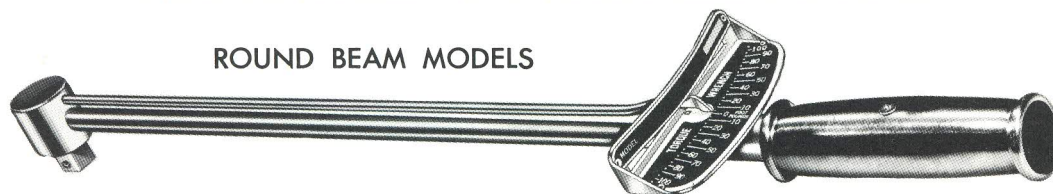
You Can't Buy Better Tools

Since 1912

Mechanics Torque Wrenches

ALSO AVAILABLE WITH METRIC READING SCALE

ROUND BEAM MODELS



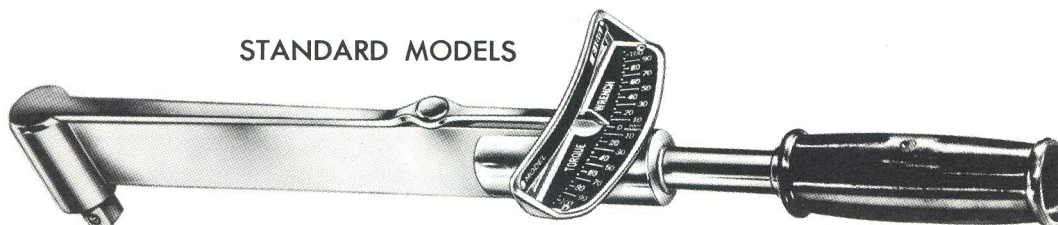
FOOT POUNDS

Catalog Number	Capacity Foot Pounds	Drive Square Size (inches)
DR 25- $\frac{3}{8}$	0 to 25	$\frac{3}{8}$
DR 25- $\frac{1}{2}$	0 to 25	$\frac{1}{2}$
R 50- $\frac{3}{8}$	0 to 50	$\frac{3}{8}$
R 50- $\frac{1}{2}$	0 to 50	$\frac{1}{2}$
R 100	0 to 100	$\frac{1}{2}$
R 150	0 to 150	$\frac{1}{2}$
R 200	0 to 200	$\frac{1}{2}$
R 300	0 to 300	$\frac{3}{4}$

INCH POUNDS

Catalog Number	Capacity Inch Pounds	Drive Square Size (inches)
DR 100-1	0 to 100	$\frac{3}{8}$
DR 200-1	0 to 200	$\frac{3}{8}$
DR 300-1- $\frac{3}{8}$	0 to 300	$\frac{3}{8}$
DR 300-1- $\frac{1}{2}$	0 to 300	$\frac{1}{2}$
R 600-1	0 to 600	$\frac{1}{2}$
R 1200-1	0 to 1200	$\frac{1}{2}$
R 1800-1	0 to 1800	$\frac{1}{2}$
R 2400-1	0 to 2400	$\frac{1}{2}$

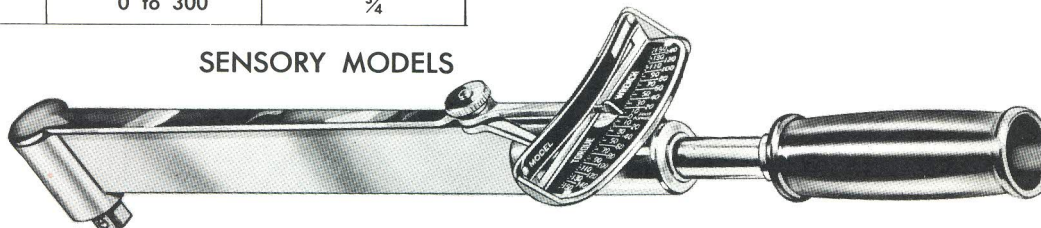
STANDARD MODELS



F 50	0 to 50	$\frac{1}{2}$
F 100	0 to 100	$\frac{1}{2}$
F 150	0 to 150	$\frac{1}{2}$
F 200	0 to 200	$\frac{1}{2}$
F 300	0 to 300	$\frac{3}{4}$

F 300-1	0 to 300	$\frac{1}{2}$
F 600-1	0 to 600	$\frac{1}{2}$

SENSORY MODELS

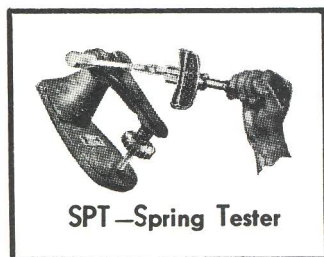


Only Sensory Models can be Preset for Required Torque

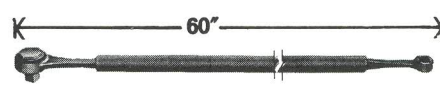
S 25	0 to 25	$\frac{1}{2}$
S 50	0 to 50	$\frac{1}{2}$
S 100	0 to 100	$\frac{1}{2}$
S 150	0 to 150	$\frac{1}{2}$
S 200	0 to 200	$\frac{1}{2}$
S 300	0 to 300	$\frac{3}{4}$

S 300-1	0 to 300	$\frac{1}{2}$
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Torque Wrench extensions for $\frac{3}{4}$ " dr. Models only



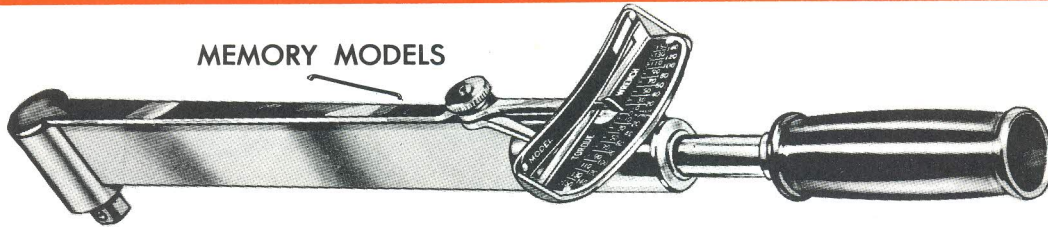
No. M28-30, 30" extension
doubles capacity to 600 ft. lbs.



No. M28-60, 60" extension
triples capacity to 900 ft. lbs.

Torque Wrenches and Multipliers

MEMORY MODELS



FOOT POUNDS

Catalog Number	Capacity Foot Pounds	Drive Square Size (inches)
M 25 $\frac{3}{8}$	0 to 25	$\frac{3}{8}$
M 25 $\frac{1}{2}$	0 to 25	$\frac{1}{2}$
M 50	0 to 50	$\frac{1}{2}$
M 100	0 to 100	$\frac{1}{2}$
M 150	0 to 150	$\frac{1}{2}$
M 200	0 to 200	$\frac{3}{4}$
M 300	0 to 300	$\frac{3}{4}$

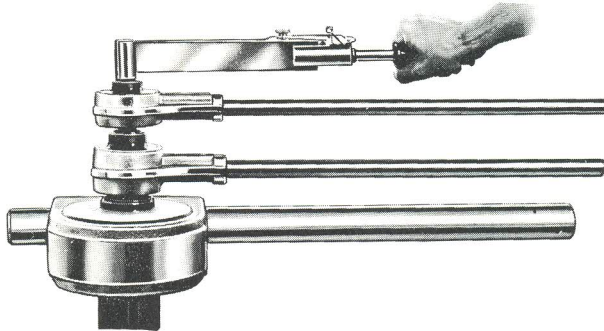
INCH POUNDS

Catalog Number	Capacity Inch Pounds	Drive Square Size (inches)
M 25-1	0 to 25	$\frac{3}{8}$
M 50-1	0 to 50	$\frac{3}{8}$
M 100-1	0 to 100	$\frac{3}{8}$
M 200-1	0 to 200	$\frac{3}{8}$

Torque Multipliers 600 to 10,000 Foot Pounds

Torque Wrench Applies and Measures Torque
a Planetary Gear Box Multiplies it!

Write to Gray Tool Co., Bramalea, Ontario, Canada for Information and Detailed Specifications



Model No.	Max. Torque Ft. Lbs.	Input Drive Size	Output Drive Size	Ratio of Gears	Over-All Length
TM 850	850	$\frac{1}{2}$ "	$\frac{3}{4}$ "	4-1	26"
TM 2000	2000	$\frac{3}{4}$ "	1"	4-1	26"
TM 4000	4000	1.0"	1.5"	4.33-1	30.5"
TM 12000	10000	1.0"	2.5"	6-1	30"

150 foot pounds is applied here with a 150 pound torque wrench, but the torque multipliers build this up to 10,000 foot pounds at the output drive.

Fit the Torque Requirement into the Chart.
Consider the Swing Room Available on the Job.

Application Torque Required (Maximum)	Swing Distance (Maximum)	Torque Wrench		Torque Multiplier Mod. No.	In-Line Attachment Model No.	Second Multiplier Mod. No.	Third Multiplier Mod. No.	Total Ratio of Gears	Ratchet Mod. No.	Torque Multiplier Kit No.
		Mod. No.	Capacity							
600 Foot Pounds	20 $\frac{5}{16}$ "	S150 $\frac{1}{2}$	150 Ft. Lbs.	TM 850				4 to 1	49973	TMK-1
1200 " "	35"	S300 $\frac{3}{4}$	300 " "	TM 2000				4 to 1	69967	TMK-2
2000 " "	65"	S600 $\frac{3}{4}$	600 " "	TM 2000				4 to 1	P-61-A6	TMK-3
2000 " "	20 $\frac{5}{16}$ "	S150 $\frac{1}{2}$	150 " "	TM 850		TM 2000		16 to 1	49973	TMK-4
3290 " "	80"	S760-1	760 " "	TM 4000				4.33 to 1	P-61-A10	TMK-5
3897 " "	94"	S300-900-1	900 " "	TM 4000				4.33 to 1	P-61-A10	TMK-6
4000 " "	34"	S300 $\frac{3}{4}$	300 " "	TM 2000	HX 130	TM 4000		16.33 to 1	69967	TMK-7
7200 " "	34"	S300 $\frac{3}{4}$	300 " "	TM 2000	HX 130	TM 12000		24 to 1	69967	TMK-8
10000 " "	65"	S600 $\frac{3}{4}$	600 " "	TM 2000		TM 12000		24 to 1	P61-A6	TMK-9
10000 " "	20 $\frac{5}{16}$ "	S150 $\frac{1}{2}$	150 " "	TM 850		TM 2000	TM 12000	96 to 1	49973	TMK-10



Sets Are Best

Since 1912

Industrial Wrenches

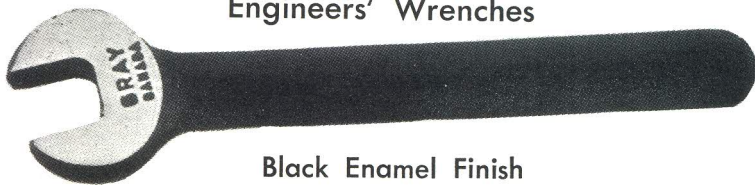
Striking Face Box Wrenches — Alloy Steel



Drop-forged and heat-treated for hard service
Double Hexagon Offset Head

No.	Opening	Length	Head	
			Thickness	Outside Diameter
8807	1 ¹ / ₁₆ "	10 ¹ / ₂ "	13 ¹ / ₁₆ "	1 ²⁷ / ₃₂ "
8807A	1 ¹ / ₈ "	10 ¹ / ₂ "	13 ¹ / ₁₆ "	1 ²⁷ / ₃₂ "
8808	1 ¹ / ₄ "	11"	7 ⁷ / ₈ "	2 ³ / ₃₂ "
8808A	1 ³ / ₁₆ "	11"	7 ⁷ / ₈ "	2 ³ / ₃₂ "
8809	1 ⁷ / ₁₆ "	11 ¹ / ₂ "	1"	2 ³ / ₈ "
8809A	1 ¹ / ₂ "	11 ¹ / ₂ "	1"	2 ³ / ₈ "
8810	1 ⁵ / ₈ "	12"	1 ¹ / ₁₆ "	2 ⁵ / ₈ "
8810A	1 ¹¹ / ₁₆ "	12"	1 ¹ / ₁₆ "	2 ⁵ / ₈ "
8811	1 ³ / ₁₆ "	12 ¹ / ₂ "	1 ¹ / ₈ "	2 ²⁹ / ₃₂ "
8811A	1 ¹ / ₈ "	12 ¹ / ₂ "	1 ¹ / ₈ "	2 ²⁹ / ₃₂ "
8812	2"	13"	1 ¹ / ₄ "	3 ⁵ / ₃₂ "
8813	2 ³ / ₁₆ "	13 ¹ / ₂ "	1 ³ / ₈ "	3 ¹⁵ / ₃₂ "
8813A	2 ¹ / ₄ "	13 ¹ / ₂ "	1 ³ / ₈ "	3 ¹⁵ / ₃₂ "
8814	2 ³ / ₈ "	14"	1 ¹ / ₂ "	3 ²³ / ₃₂ "
8815	2 ⁵ / ₁₆ "	14 ¹ / ₂ "	1 ⁵ / ₈ "	3 ²⁹ / ₃₂ "
8815A	2 ⁵ / ₈ "	14 ¹ / ₂ "	1 ⁵ / ₈ "	3 ²⁹ / ₃₂ "
8816	2 ³ / ₄ "	15"	1 ³ / ₄ "	4 ⁵ / ₃₂ "
8816B	2 ¹ / ₁₆ "	16"	1 ⁷ / ₈ "	4 ²¹ / ₃₂ "
8817A	3"	16 ¹ / ₂ "	2"	4 ¹⁵ / ₁₆ "
8817	3 ¹ / ₈ "	16 ¹ / ₂ "	2"	4 ¹⁵ / ₁₆ "

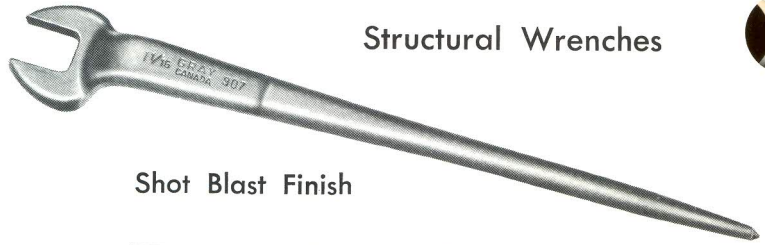
Engineers' Wrenches



Black Enamel Finish

No.	Open- ing	Length	Head Thick- ness	No.	Open- ing	Length	Head Thick- ness	No.	Open- ing	Length	Head Thick- ness
000SE	1/4	3 1/2	3/32	706SE	1	9 1/4	3/16	12ASE	2 1/4	19	1
00SE	3/16	3 1/2	3/32	7SE	1 1/4	10 1/2	5/8	13SE	2 3/8	19	1 1/16
700SE	3/8	4	1/4	707SE	1 1/8	10 1/2	5/8	13ASE	2 1/4	19	1 1/16
701SE	7/16	4 5/8	3/16	8SE	1 1/4	12	3/4	14SE	2 3/8	22	1 1/8
1SE	1/2	4 3/4	5/16	8ASE	1 5/8	12	3/4	14ASE	2 7/16	22	1 1/16
702SE	5/8	5 1/2	3/8	708ASE	1 7/8	12	3/4	15SE	2 5/8	24	1 1/8
703SE	5/8	6 3/8	1/2	9SE	1 1/2	13 1/2	7/8	15ASE	2 5/8	24	1 1/8
3SE	1 1/16	6 3/8	1/2	709SE	1 1/2	13 1/2	7/8	16SE	2 3/4	27	1 1/4
704SE	3/4	7 1/4	1/2	10SE	1 5/8	15	7/8	16BSE	2 13/16	27	1 1/4
705SE	13/16	8 1/8	1/2	10ASE	1 11/16	15	7/8	17ASE	3	30	1 3/8
5SE	7/8	8 1/8	1/2	11SE	1 13/16	16 1/2	1 1/16	17SE	3 1/8	30	1 3/8
6SE	15/16	9 1/4	1/2	11ASE	1 7/8	16 1/2	1 1/16	18ASE	3 3/8	34	1 7/16
				12SE	2	19	1	18SE	3 1/2	34	1 7/16
								19BSE	3 3/4	38	1 5/8
								19ASE	4 1/4	38	1 5/8

Structural Wrenches



Shot Blast Finish

Wrench No.	Wrench Opening	Overall Length Inch Approx.	Thickness of Head Inch	Handle Offset Inch	
				At Head	At End
901A	3/16	9 1/2	1 1/32	3/16	1 1/2
901	1/2	9 1/2	1 1/32	3/16	1 1/2
901B	3/16	9 1/2	1 1/32	3/16	1 1/2
903A	5/8	12	7/16	3/4	1 11/16
903	1 1/16	12	7/16	3/4	1 11/16
904A	3/4	12	7/16	3/4	1 11/16
905A	13/16	15	1 1/32	7/8	1 7/8
905	7/8	15	1 1/32	7/8	1 7/8
906	1 5/16	15	1 1/32	7/8	1 7/8
906B	1	15	1 1/32	7/8	1 7/8
907	1 1/16	17	5/8	1	2 3/8
907A	1 1/8	17	5/8	1	2 3/8
908	1 1/4	19	1 1/16	1 1/8	2 3/4
908A	1 5/16	19	1 1/16	1 1/8	2 3/4
909	1 1/16	21	1 3/16	1 1/4	3 1/16
909A	1 1/2	21	1 3/16	1 1/4	3 1/16
910	1 5/8	23	1 3/16	1 1/16	3 3/8
910A	1 11/16	23	1 3/16	1 1/16	3 3/8
911	1 13/16	25	7/8	1 5/8	3 11/16
911A	1 7/8	25	7/8	1 5/8	3 11/16
912	2	25	7/8	1 5/8	3 11/16

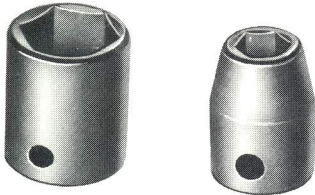
INDUSTRIAL SOCKETS

FOR POWER OR IMPACT WRENCH APPLICATIONS



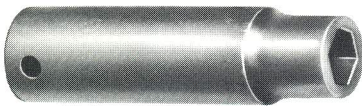
1/4" Drive Power Sockets—Single Hex, Regular Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 2106	3/16"	1/2"	11/32"	7/8"
P 2108	1/4"	1/2"	7/16"	7/8"
P 2109	9/32"	1/2"	31/64"	7/8"
P 2110	5/16"	1/2"	1/2"	7/8"
P 2112	3/8"	19/32"	19/32"	7/8"



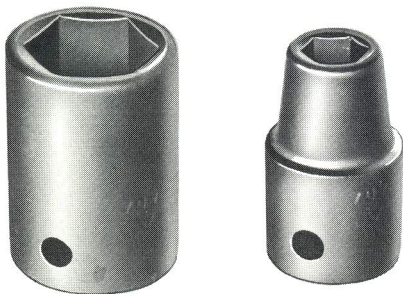
3/8" Drive Power Sockets—Single Hex, Regular Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 2210	5/16"	11/16"	1/2"	15/16"
P 2211	11/32"	11/16"	17/32"	15/16"
P 2212	3/8"	11/16"	9/16"	15/16"
P 2214	7/16"	3/4"	5/8"	15/16"
P 2216	1/2"	3/4"	3/4"	15/16"
P 2218	9/16"	13/16"	13/16"	15/16"
P 2219	19/32"	27/32"	27/32"	15/16"
P 2220	5/8"	29/32"	29/32"	15/16"
P 2222	11/16"	31/32"	31/32"	1"
P 2224	3/4"	13/64"	13/64"	1"



3/8" Drive Power Sockets—Single Hex, Deep Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
PL 2212	3/8"	11/16"	9/16"	1 1/2"
PL 2214	7/16"	3/4"	5/8"	1 1/2"
PL 2216	1/2"	3/4"	3/4"	1 1/2"
PL 2218	9/16"	13/16"	13/16"	1 1/2"
PL 2220	5/8"	29/32"	29/32"	1 1/2"



1/2" Drive Power Sockets—Single Hex, Regular Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 2406	3/8"	29/32"	5/8"	1 1/2"
P 2407	7/16"	29/32"	11/16"	1 1/2"
P 2408	1/2"	15/16"	25/32"	1 1/2"
P 2409	9/16"	15/16"	7/8"	1 1/2"
P 2419	19/32"	31/32"	29/32"	1 1/2"
P 2410	5/8"	1"	31/32"	1 1/2"
P 2411	11/16"	1 1/16"	1 1/16"	1 1/2"
P 2412	3/4"	1 1/8"	1 1/8"	1 1/2"
P 2413	13/16"	1 1/4"	1 1/4"	1 1/2"
P 2414	7/8"	1 3/16"	1 3/16"	1 1/2"
P 2415	15/16"	1 3/8"	1 3/8"	1 3/4"
P 2432	1"	1 7/16"	1 7/16"	1 3/4"
P 2433	1 1/16"	1 9/16"	1 9/16"	2"
P 2434	1 1/8"	1 5/8"	1 5/8"	2"
P 2435	1 3/16"	1 23/32"	1 23/32"	2"
P 2436	1 1/4"	1 25/32"	1 25/32"	2"



A Tool For Every Need

Since 1912

Industrial Sockets

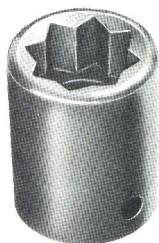
FOR POWER OR IMPACT WRENCH APPLICATIONS

1/2" Drive Power Sockets—Single Hex, Deep Length

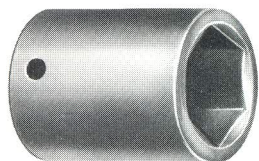


Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
PL 2406	3/8"	29/32"	5/8"	3 1/4"
PL 2407	7/16"	29/32"	11/16"	3 1/4"
PL 2408	1/2"	15/16"	25/32"	3 1/4"
PL 2409	9/16"	15/16"	7/8"	3 1/4"
PL 2410	5/8"	1"	61/64"	3 1/4"
PL 2411	11/16"	1 1/16"	1 1/16"	3 1/4"
PL 2412	3/4"	1 1/8"	1 1/8"	3 1/4"
PL 2413	13/16"	1 1/32"	1 7/32"	3 1/4"
PL 2414	7/8"	1 3/16"	1 5/16"	3 1/4"
PL 2415	15/16"	1 3/8"	1 3/8"	3 1/2"
PL 2432	1"	1 1/16"	1 1/16"	3 1/2"
PL 2433	1 1/16"	1 9/16"	1 9/16"	3 1/2"
PL 2434	1 1/8"	1 9/8"	1 5/8"	3 1/2"

1/2" Drive Power Sockets — Double Square, Regular Length

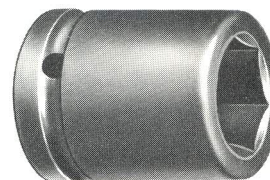


Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 4-812	3/8"	29/32"	3/4"	1 1/2"
P 4-814	7/16"	15/16"	13/16"	1 1/2"
P 4-816	1/2"	1"	29/32"	1 1/2"
P 4-818	9/16"	1 1/16"	1"	1 1/2"
P 4-820	5/8"	1 5/32"	1 5/32"	1 1/2"
P 4-822	11/16"	1 1/32"	1 1/32"	1 1/2"
P 4-824	3/4"	1 11/32"	1 11/32"	1 1/2"
P 4-826	13/16"	1 7/16"	1 7/16"	1 5/8"
P 4-828	7/8"	1 17/32"	1 17/32"	1 5/8"
P 4-830	15/16"	1 21/32"	1 21/32"	1 3/4"
P 4-832	1"	1 23/32"	1 23/32"	1 3/4"



5/8" Square Drive Sockets — Single Hex, Regular Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 2509	9/16"	15/16"	29/32"	1 1/2"
P 2519	19/32"	15/16"	31/32"	1 1/2"
P 2510	5/8"	13/16"	1"	1 1/2"
P 2511	11/16"	13/16"	1 1/8"	1 1/2"
P 2512	3/4"	15/16"	1 7/32"	1 1/2"
P 2513	13/16"	15/16"	1 11/64"	1 1/2"
P 2514	7/8"	13/8"	1 3/8"	1 5/8"
P 2515	15/16"	15/16"	1 1/16"	1 3/4"
P 2532	1"	1 1/2"	1 1/2"	1 3/4"
P 2534	1 1/16"	1 5/8"	1 5/8"	2"
P 2536	1 1/8"	1 1/2"	1 11/16"	2"
P 2538	1 3/16"	1 1/2"	1 3/4"	2"
P 2540	1 1/4"	1 1/2"	1 13/16"	2"
P 2542	1 5/16"	1 1/2"	1 15/16"	2 1/8"
P 2544	1 3/8"	1 1/2"	2"	2 1/8"
P 2546	1 7/16"	1 1/2"	2 1/8"	2 1/4"
P 2548	1 1/2"	1 13/16"	2 1/8"	2 3/8"



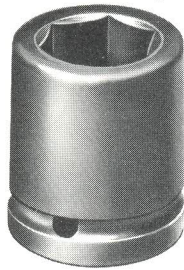
3/4" Drive Impact Sockets — Single Hex, Regular Length

Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
P 2609	9/16"	1 5/8"	1"	1 3/4"
P 2610	5/8"	1 5/8"	1 3/32"	1 3/4"
P 2611	11/16"	1 5/8"	1 3/32"	1 3/4"
P 2612	3/4"	1 5/8"	1 1/4"	1 3/4"
P 2613	13/16"	1 5/8"	1 5/8"	1 7/8"
P 2614	7/8"	1 5/8"	1 1/2"	1 7/8"
P 2615	15/16"	1 5/8"	1 1/16"	1 7/8"
P 2632	1"	1 5/8"	1 5/8"	2"
P 2634	1 1/16"	1 5/8"	1 11/16"	2"
P 2636	1 1/8"	1 5/8"	1 13/16"	2 1/8"
P 2638	1 3/16"	1 5/8"	1 7/8"	2 1/8"
P 2640	1 1/4"	1 3/4"	2"	2 1/8"
P 2642	1 3/16"	1 3/4"	2 1/8"	2 1/4"
P 2644	1 3/8"	1 3/4"	2 1/8"	2 1/4"
P 2646	1 7/16"	1 3/4"	2 1/4"	2 1/4"
P 2648	1 1/2"	1 3/4"	2 1/4"	2 1/4"

Industrial Sockets

FOR IMPACT WRENCH APPLICATIONS

3/4" Drive Impact Socket— Single Hex, Deep Length



Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
PL 2612	3/4	1 5/8	1 1/4	3 1/4
PL 2613	1 1/16	1 5/8	1 3/8	3 1/4
PL 2614	7/8	1 5/8	1 1/2	3 1/2
PL 2615	1 3/16	1 5/8	1 1/16	3 1/2
PL 2632	1	1 5/8	1 5/8	3 1/2
PL 2634	1 1/16	1 5/8	1 11/16	3 1/2
PL 2636	1 1/8	1 5/8	1 3/16	3 1/2
PL 2640	1 1/4	1 3/4	2	3 1/2
PL 2648	1 1/2	1 3/4	2 1/4	3 1/2

1 Inch Drive Impact Sockets—Single Hexagon, Regular Length, Industrial Black Finish



No.	Size	Drive End Diameter	Nut End Diameter	Length Overall
7-624	3/4	2.003	1.440	2 1/16
7-626	1 1/16	2.003	1.503	2 3/16
7-628	7/8	2.003	1.534	2 3/16
7-630	1 3/16	2.003	1.596	2 3/16
7-632	1	2.003	1.753	2 1/4
7-634	1 1/16	2.003	1.753	2 1/4
7-636	1 1/8	2.128	1.815	2 3/8
7-638	1 1/16	2.128	1.878	2 7/16
7-640	1 1/4	2.128	2.003	2 7/16
7-642	1 5/16	2.128	2.065	2 7/16
7-644	1 3/8	2.253	2.128	2 7/16
7-646	1 1/16	2.253	2.253	2 7/16
7-648	1 1/2	2.253	2.315	2 5/8
7-650	1 1/16	2.253	2.378	2 5/8
7-652	1 5/8	2.253	2.440	2 5/8
7-654	1 11/16	2.253	2.565	2 11/16
7-656	1 3/4	2.253	2.628	2 11/16
7-658	1 13/16	2.253	2.753	2 3/4
7-660	1 7/8	2.253	2.753	2 7/8
7-662	1 15/16	2.253	2.878	2 7/8
7-664	2	2.253	3.003	2 15/16
7-666	2 1/16	2.253	3.003	3 1/16
7-668	2 1/8	2.378	3.128	3 1/8
7-670	2 3/16	2.378	3.253	3 1/8
7-672	2 1/4	2.378	3.253	3 1/4
7-674	2 3/16	2.378	3.378	3 5/16
7-676	2 3/8	2.378	3.503	3 5/16
7-678	2 1/2	2.378	3.503	3 1/2
7-680	2 1/2	2.378	3.628	3 1/2
7-682	2 3/16	2.378	3.753	3 1/2
7-684	2 5/8	2.378	3.753	3 11/16
7-686	2 11/16	2.378	3.878	3 11/16
7-688	2 3/4	2.378	3.878	3 11/16
7-690	2 13/16	2.378	4.003	3 7/8
7-692	2 7/8	2.378	4.003	3 15/16
7-694	2 15/16	2.378	4.128	3 15/16
7-696	3	2.378	4.253	4 1/16
7-6100	3 1/8	2.378	4.378	4 1/8
7-6104	3 1/4	2.378	4.503	4 1/8
7-6108	3 3/8	2.378	4.628	4 1/2
7-6112	3 1/2	2.378	4.753	4 1/2
7-6116	3 5/8	2.378	5.003	4 1/2

Retainer Pins and "O" Rings



Power Locking Pins		Power Locking Rings	
No.	Drive	No.	Drive
PLP 34	3/4"	PLR 34	3/4"
PLP 100	1"	PLR 100	1"

For Greater Efficiency



Industrial Sockets

FOR IMPACT WRENCH APPLICATIONS

1 Inch Drive Impact Sockets — Single Hexagon, Deep Length, Industrial Black Finish



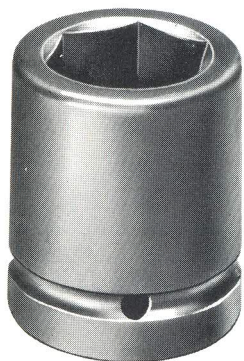
No.	Size	Drive End Diameter	Nut End Diameter	Length Overall
17-628	$\frac{7}{8}$	2.003	1.440	3
17-630	$1\frac{1}{16}$	2.003	1.596	3
17-632	1	2.003	1.753	3
17-634	$1\frac{1}{16}$	2.003	1.753	3
17-636	$1\frac{1}{8}$	2.128	1.815	3
17-638	$1\frac{3}{16}$	2.128	1.878	3
17-640	$1\frac{1}{4}$	2.128	2.003	3
17-642	$1\frac{5}{16}$	2.128	2.065	$3\frac{1}{2}$
17-644	$1\frac{3}{8}$	2.253	2.128	$3\frac{1}{2}$
17-646	$1\frac{7}{16}$	2.253	2.253	$3\frac{1}{2}$
17-648	$1\frac{1}{2}$	2.253	2.315	$3\frac{1}{2}$
17-650	$1\frac{9}{16}$	2.253	2.378	$3\frac{1}{2}$
17-652	$1\frac{5}{8}$	2.253	2.440	$3\frac{1}{2}$
17-654	$1\frac{11}{16}$	2.253	2.565	$3\frac{5}{8}$
17-656	$1\frac{3}{4}$	2.253	2.625	$3\frac{5}{8}$
17-658	$1\frac{13}{16}$	2.253	2.753	$3\frac{5}{8}$
17-660	$1\frac{7}{8}$	2.253	2.753	$3\frac{7}{8}$
17-662	$1\frac{15}{16}$	2.253	2.878	$3\frac{7}{8}$
17-664	2	2.253	3.003	$3\frac{7}{8}$
17-666	$2\frac{1}{16}$	2.253	3.003	$4\frac{1}{8}$
17-668	$2\frac{1}{8}$	2.378	3.128	$4\frac{1}{8}$
17-670	$2\frac{3}{16}$	2.378	3.253	$4\frac{1}{8}$
17-672	$2\frac{1}{4}$	2.378	3.253	$4\frac{3}{8}$
17-674	$2\frac{5}{16}$	2.378	3.378	$4\frac{3}{8}$
17-676	$2\frac{3}{8}$	2.378	3.503	$4\frac{3}{8}$



1 Inch Drive Impact Socket — Regular Length

No.	Size	Drive End Diameter	Nut End Diameter	Length Overall
P 5426S	$1\frac{1}{16}$ " sq.	$2\frac{1}{8}$ "	$1\frac{1}{8}$ "	$2\frac{1}{4}$ "

$1\frac{1}{2}$ Inch Drive — Single Hexagon, Regular Length, Industrial Black Finish



Stock No.	Size	Drive End Diameter	Nut End Diameter	Length
8-642	$1\frac{5}{16}$	3.253	2.503	$3\frac{1}{8}$
8-644	$1\frac{3}{8}$	3.253	2.753	$3\frac{1}{8}$
8-646	$1\frac{1}{4}$	3.253	2.753	$3\frac{1}{8}$
8-648	$1\frac{1}{2}$	3.253	2.878	$3\frac{1}{8}$
8-652	$1\frac{5}{8}$	3.253	3.003	$3\frac{1}{8}$
8-654	$1\frac{11}{16}$	3.253	3.003	$3\frac{1}{8}$
8-658	$1\frac{3}{4}$	3.253	3.128	$3\frac{1}{4}$
8-660	$1\frac{7}{8}$	3.253	3.128	$3\frac{1}{4}$
8-664	2	3.253	3.253	$3\frac{3}{4}$
8-666	$2\frac{1}{16}$	3.253	3.503	$3\frac{3}{8}$
8-668	$2\frac{1}{8}$	3.253	3.503	$3\frac{3}{8}$
8-670	$2\frac{3}{16}$	3.253	3.503	$3\frac{3}{8}$
8-672	$2\frac{1}{4}$	3.253	3.753	4
8-676	$2\frac{3}{8}$	3.253	3.878	$4\frac{1}{8}$
8-678	$2\frac{7}{16}$	3.253	3.878	$4\frac{1}{8}$
8-682	$2\frac{1}{2}$	3.253	4.003	$4\frac{1}{4}$
8-684	$2\frac{5}{8}$	3.253	4.128	$4\frac{1}{4}$
8-688	$2\frac{3}{4}$	3.253	4.253	$4\frac{3}{8}$
8-694	$2\frac{13}{16}$	3.253	4.503	$4\frac{1}{2}$
8-696	3	3.253	4.503	$4\frac{5}{8}$
8-6100	$3\frac{1}{8}$	3.253	4.753	$4\frac{5}{8}$
8-6108	$3\frac{3}{8}$	3.253	5.003	$4\frac{5}{8}$
8-6112	$3\frac{1}{2}$	3.253	5.128	$4\frac{5}{8}$

Regular and Hex. Drive Power Extensions

ADAPTORS AND UNIVERSAL JOINTS



Regular Extension Bars



Hex Driver Extension

1/4" Square Drive

No.	Length	Square Male	Square Female	No.	Length	Hex. Male	Square Male
PO-102A	2"	1/4"	1/4"	PO-02A	2"	1/4"	1/4"
PO-106A	6"	1/4"	1/4"	PO-04A	4"	1/4"	1/4"

3/8" Square Drive

P2-103A	3"	3/8"	3/8"	P2-33A	2 3/4"	7/16"	3/8"
P2-106A	6"	3/8"	3/8"	P2-35A	5"	7/16"	3/8"

1/2" Square Drive

P4-105A	5"	1/2"	1/2"	P4-33A	2 3/4"	7/16"	1/2"
P4-110A	10"	1/2"	1/2"	P4-35A	5"	7/16"	1/2"
				P4-53A	3"	5/8"	1/2"
				P4-55A	5"	5/8"	1/2"

5/8" Square Drive

P5-106A	6"	5/8"	5/8"	P5-53A	3"	5/8"	5/8"
P5-110A	10"	5/8"	5/8"	P5-55A	5"	5/8"	5/8"
				P5-58A	8"	5/8"	5/8"
				P5-63A	3"	5/8"	3/4"

3/4" Square Drive

No.	Length	Square Male	Square Female
P6-107	7"	3/4"	3/4"
P6-110	10"	3/4"	3/4"
P6-113	13"	3/4"	3/4"

1" Square Drive

P5406	7 1/2"	1"	1"
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Adaptors

Number	Male Square	Female Square
PA2-4A	1/2"	3/8"
PA4-2A	3/8"	1/2"
PA5-4A	1/2"	5/8"
PA4-5A	5/8"	1/2"
PA6-7	1"	3/4"
PA7-6	3/4"	1"



Universal Joints

P2-140A 3/8" drive



P4-140A 1/2" drive



P6-140A 3/4" drive



Wrenches and Hack Saws

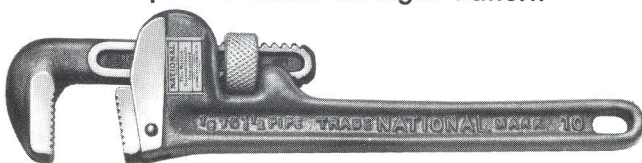
Gray Tool Adjustable Wrenches



The Gray Tool lightweight Adjustable Wrench is forged from alloy steel. It is thinner and lighter, yet much stronger than the standard pattern.

No.	Size	Max. Opening	No.	Size	Max. Opening
BW 4	4"	1/2"	BW 12	12"	1 5/16"
BW 6	6"	3/4"	BW 15	15"	1 11/16"
BW 8	8"	1 1/8"	BW 18	18"	2 1/16"
BW 10	10"	1 3/8"	AC 124	24"	2 7/16"

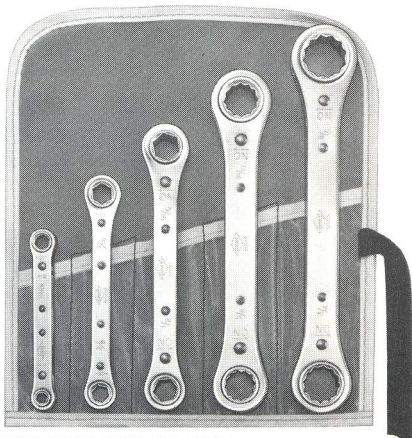
Pipe Wrenches Straight Pattern



These Pipe Wrenches have long been famous for their remarkable durability under hard usage. They are drop forged from specially selected steel and carefully heat treated. The unbreakable housing and free-moving nut are features that will be appreciated by all good mechanics.

No.	Size	Grips Pipe
NSP 6	6"	1/8" to 3/4"
NSP 8	8"	1/8" to 1"
NSP 10	10"	1/8" to 1 1/2"
NSP 14	14"	1/4" to 2"
NSP 18	18"	1/4" to 2 1/2"
NSP 24	24"	1/4" to 3"
NSP 36	36"	1/4" to 5"
NSP 48	48"	1" to 6"

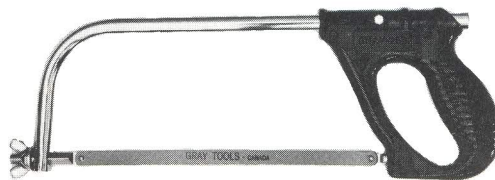
Ratchet Box Wrenches



No.	Openings	Description
5001	1/4" x 5/16"	S.H. Length 4 1/4"
5002	3/8" x 7/16"	S.H. Length 5 1/2"
5003	1/2" x 9/16"	S.H. Length 6 3/4"
5004	5/8" x 1 1/16"	D.H. Length 8"
5005	3/4" x 7/8"	D.H. Length 9 1/4"

5000 LR — Set of 5 of the above in red plastic roll No. 2033.

No. 2682 Tubular Adjustable Hack Saw Frame



A strong, well-built tubular hack saw, with comfortable steel handle. Adjustable from 8" to 12". Full nickel finish. Complete with blade. Individually packed.

High Speed Steel Hack Saw Blades

No.	Width	Length	Gauge	Teeth per inch
HS 1018	1/2"	10"	.025	18
HS 1024	1/2"	10"	.025	24
HS 1032	1/2"	10"	.025	32
HS 1218	1/2"	12"	.025	18
HS 1224	1/2"	12"	.025	24
HS 1232	1/2"	12"	.025	32

Tungsten Alloy Steel Hack Saw Blades

No.	Width	Length	Gauge	Teeth per inch
TA 1018	1/2"	10"	.025	18
TA 1024	1/2"	10"	.025	24
TA 1032	1/2"	10"	.025	32
TA 1218	1/2"	12"	.025	18
TA 1224	1/2"	12"	.025	24
TA 1232	1/2"	12"	.025	32

All hack saw blades available only in packages of 10.

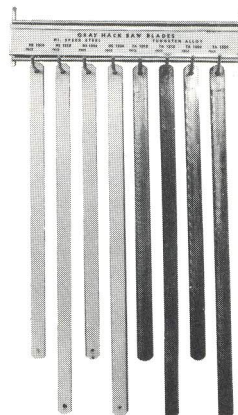
No. 2630 Adjustable Tension Hack Saw Frame



With 6" x 1/4" hack saw blade. Fits in close places. Handy for electricians, plumbers, and mechanics. Indispensable for home mechanics. Extra blades No. 2630 B available.

WR 19 Hack Saw Display Rack

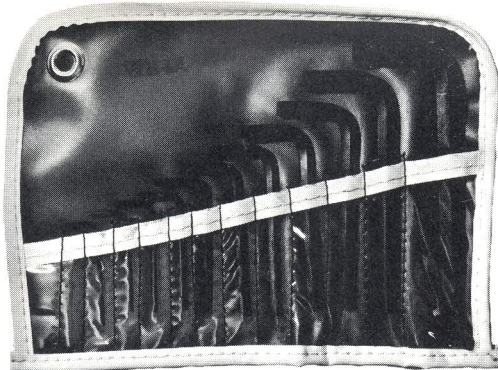
Contains 160 blades (16 packages of 10) as follows:



- 2 packs — HS 1018
- 2 packs — HS 1218
- 2 packs — HS 1024
- 2 packs — HS 1224
- 2 packs — TA 1018
- 2 packs — TA 1218
- 2 packs — TA 1024
- 2 packs — TA 1224

Allen Wrenches & Hex Key Sets

W 11 LR Allen Wrench Set



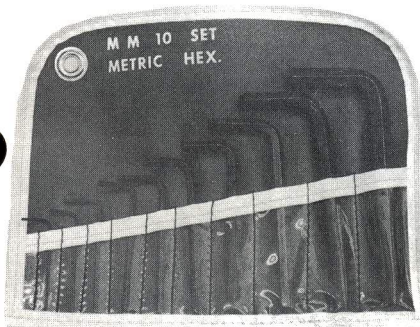
W 11 LR Set of 11 Head Screw Wrenches W 1 to W 12 inclusive in leatherette roll. No. 2011.

W 15 LR Allen Wrench Set



W 15 LR Set contains one each of Series W 1 to W 24 in leatherette roll. No. 2013.

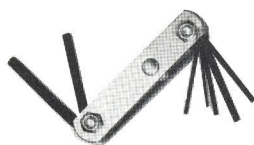
MM 10 LR Metric Allen Wrench Set 10-Piece Set From 1.27 to 10 MM



Packed in roll No. 2034.

No.	Hex. Across Flats	Long Arm Length
MM-1.27	1.27 MM	1 3/4"
MM-1 1/2	1.5 MM	2"
MM-2	2.0 MM	2 3/8"
MM-2 1/2	2.5 MM	2 3/8"
MM-3	3 MM	2 3/8"
MM-4	4 MM	2"
MM-5	5 MM	2 7/8"
MM-6	6 MM	3 1/16"
MM-8	8 MM	4"
MM-10	10 MM	4 3/16"

No. KM-7 — Metric —



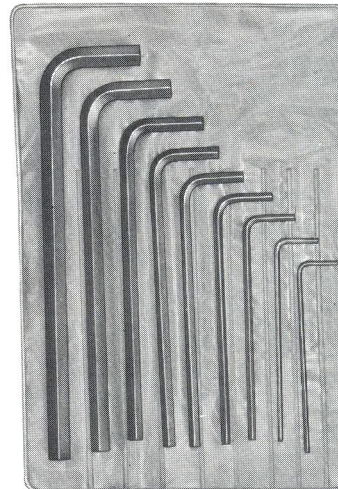
Contains 7 metric sizes (1.27mm, 1.5mm, 2.0mm, 2.5mm, 3mm, 4mm, 5mm)

Short Allen Head Screw Wrenches

These wrenches are practically indispensable in modern shops. All late model motors are using hollow head cap screws and set screws on which these wrenches must be used.

No.	Hex. Across Flats	Long Arm Length	No.	Hex. Across Flats	Long Arm Length
W 1	.050	1 3/4"	W 8	1/4"	3 1/4"
W 2	1/16"	1 3/4"	W 10	5/16"	3 3/4"
W 2 1/2	5/64"	1 7/8"	W 12	3/8"	4 1/4"
W 3	3/32"	2"	W 16	1/2"	5 1/4"
W 3 1/2	7/64"	2"	W 18	5/16"	5 3/4"
W 4	1/8"	2 1/4"	W 20	5/8"	6 1/4"
W 4 1/2	9/64"	2 1/4"	W 24	3/4"	7 1/2"
W 5	5/32"	2 1/2"	W 26	7/8"	8 1/4"
W 6	3/16"	2 3/4"	W 28	1"	9 1/4"
W 7	7/32"	3"			

Long Allen Head Screw Wrenches



No.	Hex. Across Flats	Long Arm Length
W 1 L	5/64"	3 1/16"
W 2 L	3/32"	3 3/8"
W 3 L	1/8"	3 3/4"
W 4 L	5/32"	4 1/8"
W 5 L	3/16"	4 1/2"
W 6 L	7/32"	4 7/8"
W 7 L	1/4"	5 1/4"
W 8 L	5/16"	6"
W 9 L	3/8"	6 3/4"

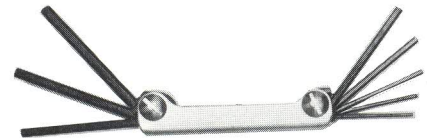
W 9 LR Set contains one each of Series W 1 L to W 9 L in strong plastic roll. No. 2036.

Pocket Hex Key Sets

Wrenches are made of the finest quality alloy steel. They may be used independently in any position and then store neatly away.

No. KW-7

Contains 7 sizes .050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16"



No. KW-6L

Heavy Duty Set. Contains sizes (1/8", 5/32", 3/16", 7/32", 1/4", 5/16")

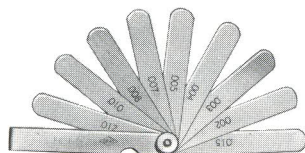


Since 1912

The Finest Name in Tools

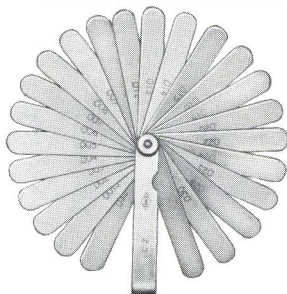
Feeler Gauges

These Gauges are Marked in Inches and Millimeters



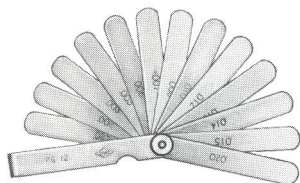
**FG-1
STANDARD FEELER GAUGE**

Contains ten $3\frac{5}{16}$ " x $\frac{1}{2}$ " blades of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012 and .015. Packed 6 to a box; weight $\frac{1}{2}$ lb.



**FG-2
UNIVERSAL MASTER GAUGE**

Contains twenty-five $3\frac{5}{16}$ " x $\frac{1}{2}$ " blades of the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .024, .025, .028, .030, .032 and .035. Packed 6 to a box; weight $1\frac{1}{4}$ lbs.



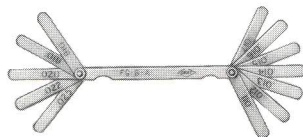
**FG-12
FEELER GAUGE**

Contains fifteen $3\frac{5}{16}$ " x $\frac{1}{2}$ " blades of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020 and .025. Packed 6 to a box; weight $\frac{3}{4}$ lb.



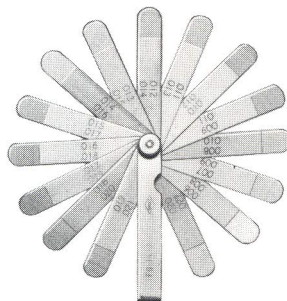
**FG-7A
SPARK PLUG WIRE GAUGE**

Contains one electrode bender and eight wire gauges of the following thicknesses: .022, .025, .028, .030, .032, .035, .038 and .040. Packed 6 to a box; weight $7\frac{1}{2}$ oz.



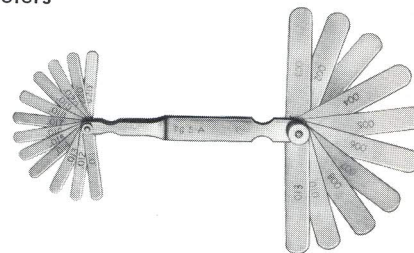
**FG-6-A
IGNITION GAUGE**

Contains twelve $1\frac{3}{4}$ " x $\frac{1}{4}$ " blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 and .025. Packed 6 to a box; weight 6 oz.



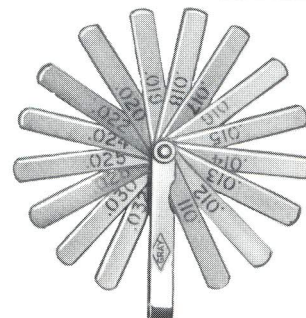
**FG-14-A
15-blade
GO-NO-GO GAUGE**

Contains fifteen $3\frac{5}{16}$ " x $\frac{1}{2}$ " step-ground blades of following thicknesses: .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022. Packed 6 to a box; weight 1 lb.



**FG-5-A
COMBINATION GAUGE**

Contains ten 3" x $\frac{1}{2}$ " blades on one end, of the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015; and twelve $1\frac{3}{4}$ " x $\frac{1}{4}$ " blades on the other end, of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 and .025. Packed 6 to a box; weight $\frac{3}{4}$ lb.

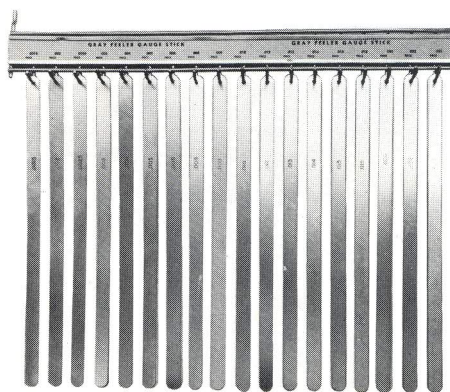


**FG-15-A
MASTER IGNITION GAUGE**

Serves Domestic and Foreign Cars

Contains sixteen $1\frac{3}{4}$ " x $\frac{1}{4}$ " blades of the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032. Packed 6 to a box; weight 6 oz.

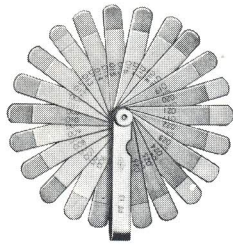
WR 20 Feeler Gauge Stock



This display rack of feeler gauges contains 162 gauges from .001 to .025. Blades are packed 6 to a pack only.

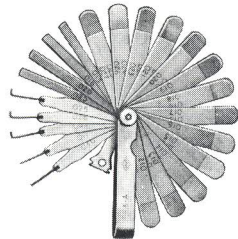
Feeler Gauges

These Gauges are Marked in Inches and Millimeters



**FG-13
MASTER GO-NO-GO GAUGE**

Contains twenty-two $3\frac{5}{16}$ " x $\frac{1}{2}$ " step-ground blades of the following thicknesses: .004-.006, .005-.007, .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022, .021-.023, .022-.024, .023-.025, .024-.026, .025-.027. **Packed 6 to a box; weight 1 lb. 7 oz.**



**FG-3-A
IGNITION GAUGE**

Contains thirteen step-ground $3\frac{5}{16}$ " x $\frac{1}{2}$ " Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027.

Four $3\frac{5}{16}$ " x $\frac{1}{4}$ " Ignition Blades: .015, .016, .020, .025.

Three 90° offset wire blades: .025, .028, .035.

Two straight wire blades: .017, .030.

One electrode bending tool.

Packed 6 to a box; weight 1 lb. 6 oz.



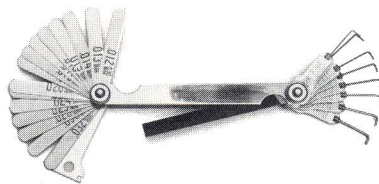
**FG-8
BRAKE GAUGE**

Contains nine 4" x $\frac{1}{4}$ " blades in the following thicknesses for checking brake clearances: .002, .004, .005, .006, .007, .008, .010, .012, .015. **Packed 6 to a box; weight 6 oz.**



**FG-275
MASTER OFFSET GAUGE**

Contains twenty-six $3\frac{5}{16}$ " x $\frac{1}{2}$ " blades with 45° offset of the following thicknesses: .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .027, .028, .029, .030. **A required gauge for all mechanics and shops. Packed 6 to a box.**



**FG-18
COMBINATION PLUG AND
IGNITION GAUGE**

Containing twenty-five units, this gauge offers every type and style of blade required in ignition work.

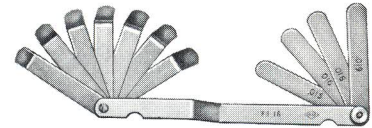
Eight 90° offset wire blades: .022, .025, .028, .030, .032, .035, .038, .040.

Fifteen Ignition Blades: .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032. **One Gapper, one File. Packed 6 to a box.**



**FG-9
PISTON GAUGE**

Contains eight 9" x $\frac{1}{2}$ " blades of the following thicknesses: .002, .003, .004, .005, .006, .008, .010 and .015. **Packed 6 to a box; weight 1 lb.**



**FG-16
COMBINATION O.H.V.
GAUGE**

Contains seven $3\frac{5}{16}$ " x $\frac{1}{2}$ " blades with 45° offset of the following thicknesses: .018, .019, .020, .021, .024, .025, .026 and four straight $3\frac{5}{16}$ " x $\frac{1}{2}$ " in the following thicknesses: .015, .016, .018 and .019. **This gauge is useful on all motors. Packed 6 to a box; weight 1 lb. 6 oz.**



**FG-19
THE TURTLE**

Designed as a general gauge, it's extremely handy to carry or to hang ready at the bench. Contains seven sizes with gapper .020, .025, .028, .030, .032, .035, .040, MM 0.50, 0.63, 0.71, 0.76, 0.81, 0.89, 1.0. **Packed 6 to a box.**

FEELER GAUGE BLADES

**With $\frac{5}{32}$ " hole one end
Hardened and Polished Swedish Steel**

Available in all popular sizes from .001 to .040 in standard $3\frac{5}{16}$ " and 12" lengths by $\frac{1}{2}$ " wide. These blades can be used in FG-10 and FG-11 Stock Holders thereby enabling them to be used down to the last short piece by trimming off the worn ends. Each blade is permanently marked with its proper size.

These blades can be supplied in the following sizes: .001, .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .027, .028, .029, .030, .031, .032, .033, .034, .035, .036, .037, .038, .039 and .040. When ordering specify length — either $3\frac{5}{16}$ " or 12". **These blades packed in packages of 6 blades.**

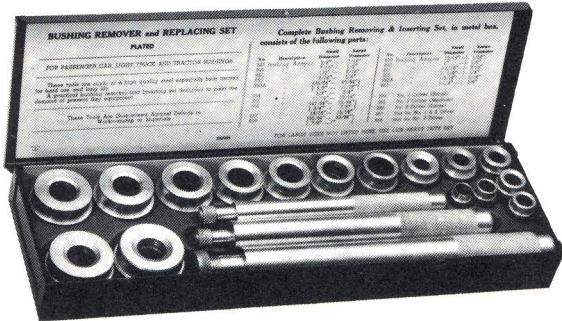


For Specialized Services

Since 1912

Bushing Drivers • Screw Extractors

LO 875 A BUSHING REMOVER and REPLACING SET PLATED



For Passenger Car, Light Truck and
Tractor Bushings

These tools are made of a high quality steel especially heat treated for hard use and long life.

A practical bushing remover and inserting set designed to meet the demand of present day equipment.

These Tools Are Guaranteed Against Defects in
Workmanship or Materials

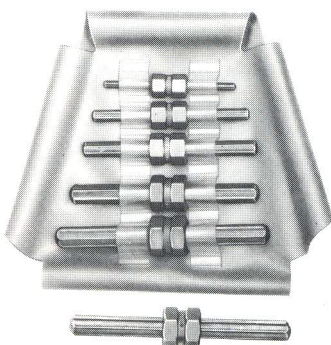
Complete Bushing Removing
& Inserting Set, in metal box, consists
of the following parts:

No.	Description	Small Diameter	Large Diameter
LO 847	Bushing Adaptor	3/8"	7/16"
LO 849	"	7/16"	1/2"
LO 850	"	1/2"	9/16"
LO 852	"	9/16"	5/8"
LO 853A	"	{ 39/64" 5/8" 5/8"	{ 43/64" 11/16"
LO 854	"	5/8"	3/4"
LO 855	"	11/16"	13/16"
LO 856	"	{ 47/64" 3/4"	{ 55/64" 7/8"
LO 857	"	13/16"	15/16"
LO 858	"	{ 55/64" 7/8"	{ 63/64" 1"
LO 859	"	15/16"	1 1/16"
LO 860	"	1"	1 1/8"
LO 861	"	1 1/16"	1 3/16"
LO 862	"	1 1/8"	1 1/4"
LO 862A	"	1 3/16"	1 5/16"
LO 863	"	1 1/4"	1 3/8"
LO 864	No. 1 Driver (Small)		
LO 865	No. 2 Driver (Medium)		
LO 866	No. 3 Driver (Large)		
LO 867	Nut for No. 1 & 2 Driver		
LO 868	Nut for No. 3 Driver		

SCREW EXTRACTORS

Easy to use! Simply drill hole, then drive in extractor and turn. Out comes broken object. This 5-piece set contains the most popular size extractors. Made of rugged alloy steel, the sharp edges are designed to bite positively, without wedging or binding. Set comes complete with durable, handy vinyl plastic pouch.

"LonGrip" Screw Extractors



Rigid "LonGrip" Extractors are positive in operation and easy to use. Simply drill the screw to be removed with the correct size drill (as shown below), deep enough so that the extractor will grip, insert the corresponding extractor, and turn.

Set No. RE 3 — Extractors Nos. 3, 4 and 5.

Set No. RE 5 — Extractors Nos. 1, 2, 3, 4 and 5.

No.	Fits Screw	Use Drill	O.D.	Length	Depth
SE 1	1/4"	1/8"	.139	2 3/8"	1"
SE 2	3/16"	3/16"	.205	2 3/4"	1"
SE 3	3/8"	1/4"	.272	3 1/8"	1"
SE 4	7/16"	5/16"	.338	3 5/8"	1"
SE 5	1/2" - 9/16"	11/32"	.374	3 3/4"	1"

No. SE50 Screw Extractor Set

Easily removes studs, screws, pipe and alemite fittings

Part No.	Screw Stud or Bolt Size	Drill Size	Minimum Depth of Hole	Pipe Size
SE-1	1/4", 5/16"	1/8"	3/8"	
SE-2	3/8"	3/16"	1/2"	
SE-3	7/16"	15/64"	1/2"	1/8"
SE-4	1/2", 9/16"	5/16"	1/2"	1/4"
SE-5	5/8"	3/8"	5/8"	3/8"



No. S35P. Five-piece Screw Extractor

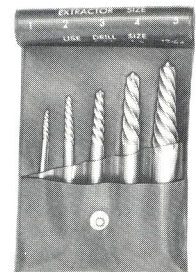


Screw Extractors are packed in handy pouches.

For removing broken screws, bolts, studs and pipes that cannot be taken out any other way.

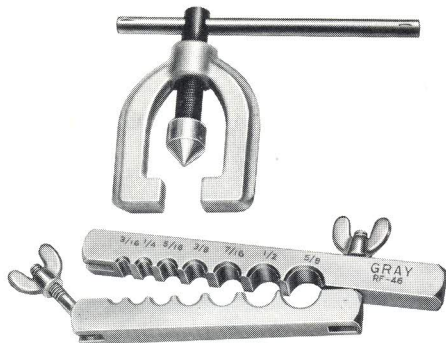
Size No.	Removes Screws
Ex. 1	3/32 - 5/32
Ex. 2	5/32 - 7/32
Ex. 3	7/32 - 9/32
Ex. 4	3/8 - 3/8 & 1/8" pipe
Ex. 5	3/8 - 5/8 & 1/4" pipe

Set No. S35P



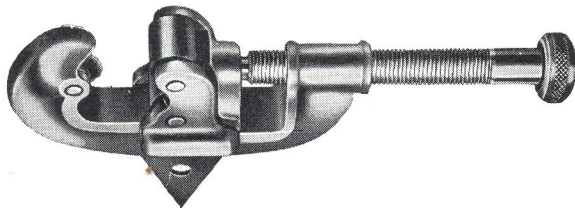
Tube Cutting and Flaring Tools

No. RF 46 Flaring Tool



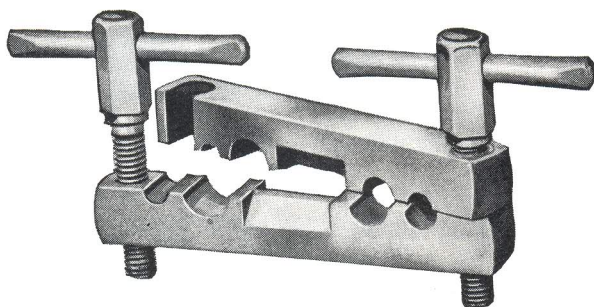
A simple, fast, efficient tool for quickly and accurately flaring copper and other tubing having $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " O.D. Oversize wing nuts securely lock tubing in holes threaded to prevent slipping. Open side flaring yoke attaches instantly to flaring bars. The flaring head is of the self-centering type, assuring easy, perfect flaring. A fine tool, reasonably priced for working in close quarters on gas lines, etc. Net weight 2 lbs.

No. RF 99 Tube Cutter



A compact, efficient tube cutter for all tubing from $\frac{1}{8}$ " to 1" O.D. Body is an alloy die casting. Wafer-tapered, hardened cutting blade makes cutting easy and with practically no burr. The slide-lock safety reamer opens instantly and protects the hands when not in use. It may be safely carried in your pocket. Net weight $\frac{1}{2}$ lb.

No. RF 47 Pinch-Off Tool



The primary use of this tool is in refrigeration service work and is used to pinch off refrigeration tubing as well as restoring the tubing to correct shape and diameter after the service work has been completed.

The outstanding feature of this handy tool is the quick-operating freeing and locking action. This tool is made for use with $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " inch tubing.

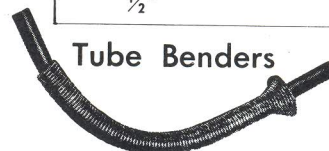
No. RF 163 Double Flaring Tool



This Flaring Tool is designed and built to withstand the pressure that is necessary to double flare soft steel tubing (.040 wall thickness). The hardened Bar Assembly with five threaded dies ($\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ") also single flares soft copper, aluminum or brass tubings 45 degrees. The Yoke Compressor is made of a heat-treated steel forging.

Dies for RF 163

Size	Number
$\frac{3}{16}$ "	RF 163-1
$\frac{1}{4}$ "	RF 163-2
$\frac{5}{16}$ "	RF 163-3
$\frac{3}{8}$ "	RF 163-4
$\frac{1}{2}$ "	RF 163-5



Tube Benders

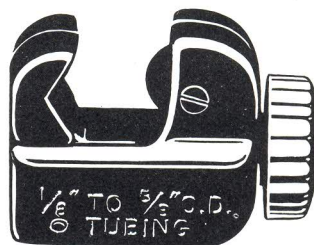
External Type

Ideal for bending copper and other tubing by hand to any desired shape without collapsing the tube.

No.	For Size Tubing
RF 60	$\frac{1}{4}$ "
RF 61	$\frac{5}{16}$ "
RF 62	$\frac{3}{8}$ "
RF 63	$\frac{7}{16}$ "
RF 64	$\frac{1}{2}$ "
RF 65	$\frac{5}{8}$ "

No. RF 66 Tube Bender Set

The set consists of one each of the above sizes.



RF 97 Midget Tube Cutter

$\frac{1}{8}$ " to $\frac{5}{8}$ "

For close quarter work.

Service Station Tools



No. 7550 12-Volt Tester & Probe

A must for finding shorts and testing circuits. Ground the alligator clip and pierce wire insulation with probe. Plastic handle will light up when circuit is complete. No light and the trouble is located.

B683 Fuse and Spark Plug Terminal Pliers



CF 143 Inspection Mirror Flexible Head



Merchandised Knives

For cutting shims, gaskets, packing, top and upholstery materials, this Knife is unsurpassed. Five razor edge blades fit inside the handle, and a new one can be inserted in an instant. Our heavy duty unit.



No. 199 SK Shop Knife

No. 207 Retractable Scraper

No. 205 Retractable Utility Knife

No. 208 Blades For 207 Scraper



No. 206 Utility Blades

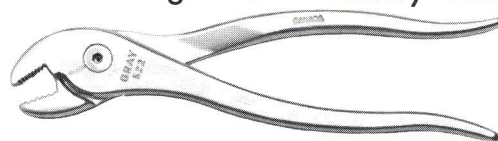
For 199SK and 205 Knives.

No. X010 Oil Filter Wrench



Adjusts to most size oil filters. Small and compact for close areas. Lightweight but very sturdy.

No. 522 Angle Nose Battery Plier



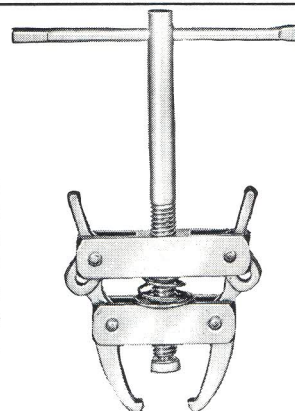
The handiest plier ever designed for battery work. Chrome plated and 8" long.

No. 524 Battery Terminal Spreader

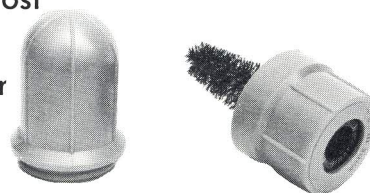


No. 1000 Battery Terminal Puller

A sure grip miniature puller which will remove the most stubborn battery cable terminal. This puller has been redesigned to fit over the large type battery cable terminals on late model cars.



BTC 2 Battery Post and Terminal Cleaner



No. 170 Nut Breaker



Free frozen and rusted nuts in seconds. Range from 0 to 3/16".

Nos. P 317, P 319 Separators

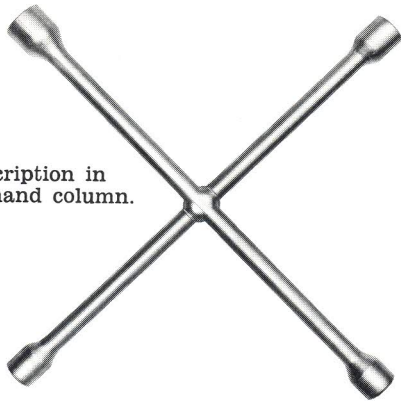


No. P 317 Shock Link and Stabilizer Link Separator. This tool is a forked type separator, used to free the tapered links of shock absorber or the stabilizer from their mountings. Length 16". Jaw opening 5/8".

No. P 319 Pitman Arm Separator. This tool is a forked wedge type separator used to dismantle the Pitman arm assembly. Jaw opening 1 1/8" and overall length 11 1/2".

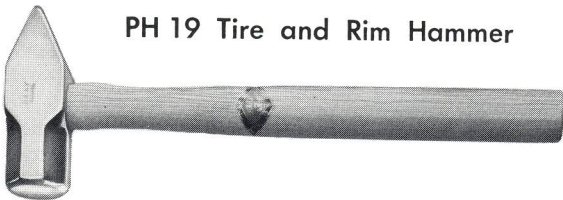
Wheel Wrenches and Tire Tools

309 Four Way Wheel Wrench



Description in right hand column.

PH 19 Tire and Rim Hammer



Drop forged from high grade steel and carefully heat treated. This tire and rim hammer is specially designed for all types of work where such a tool is needed. Full polished head with strong hickory handle. Weight, 3 lbs.

No. M 6 T Spoon Type Tire Iron



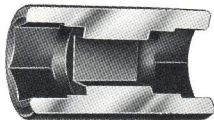
Straight pattern for trucks and passenger cars. Length 23".

No. M 7 T Spoon Type Tire Iron



Curved pattern for trucks and passenger cars. Length 22 $\frac{5}{8}$ ".

P 5430 Flip Socket $\frac{3}{4}$ " x $\frac{13}{16}$ " $\frac{1}{2}$ " Drive 6 Point



1258 WR $1\frac{1}{2}$ " Hex. x $\frac{13}{16}$ " Sq., 14 $\frac{1}{2}$ " long.
1258 B Cross bar fits 1258WR.

Four Way Wheel Wrenches



These Wrenches are forged from high quality carbon steel and are nickel plated.

No.	Wrench Size	Length
• 307	$\frac{3}{4}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ "	14 $\frac{3}{4}$ "
• 310	$\frac{3}{4}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ "	17 $\frac{1}{2}$ "
• 321	$\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ "	21 $\frac{3}{4}$ "
No. 321 Heavy Duty $\frac{5}{8}$ " RD Hi Carbon Stock		
• M 340	Metric for European cars 17MM, 19 MM, 22MM, $\frac{13}{16}$ "	14 $\frac{3}{4}$ "
• W 303S	British Cars $\frac{3}{8}$ " B.S.W. $\frac{7}{16}$ " B.S.W. $\frac{3}{4}$ " screw driver for removing hub caps	14 $\frac{3}{4}$ "
• W 304	British $\frac{5}{16}$ " B.S.W., $\frac{3}{8}$ " B.S.W., $\frac{7}{16}$ " B.S.W., $\frac{1}{2}$ " B.S.W.	14 $\frac{3}{4}$ "

No.	Wrench Sizes	Length
• 309	Truck 4-way with forged openings 1" Hex.; $\frac{1}{16}$ " Hex. and $\frac{7}{8}$ " Hex.; $\frac{1}{4}$ " Hex. and $\frac{13}{16}$ " Sq.; $\frac{1}{2}$ " Hex. Two arms incorporate double size openings, thus providing six socket sizes. Arms 1" round x 25" long.	25"

The 308 wheel wrench is forged from molybdenum steel and is nickel plated.

No.	Wrench Sizes	Length
308	$\frac{3}{4}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ "	18"

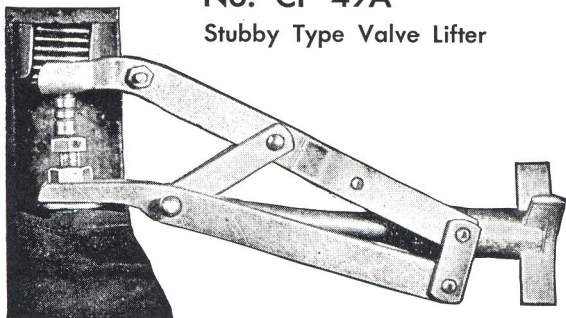
No. 1258WR Truck Rim Wrench



Wrenches are forged from high quality steel. Black finished. 1258 B Cross bar fits 1258 WR

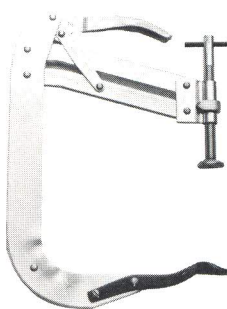
Valve Tools

No. CF 49A
Stubby Type Valve Lifter



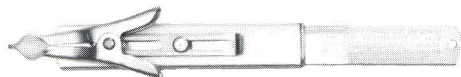
Has many outstanding features to make it the most popular universal valve lifter on the market to-day. It will service any "L" Head motor having the cylinders in one line and straight stemmed valves. It is so small that it gets in all the tight corners with ease. It has no catches to wear and slip; no pinching of fingers, etc. Not necessary to remove manifolds when you use a Gray stubby.

No. CF 4
Valve Spring Compressor
Small Series



Serves all Chevrolet and many low horse-power motors including some of British make. Also well adapted to many "L" head motors when manifolds are removed. Heavy bar-steel with adjustable jaws, oil tempered. Screw adjustment for plunger depth. Safety over-center lock allows both hands free when spring is raised. Throat $4\frac{3}{4}$ " x $6\frac{1}{4}$ ".

No. CF 7 Split Lock Replacer



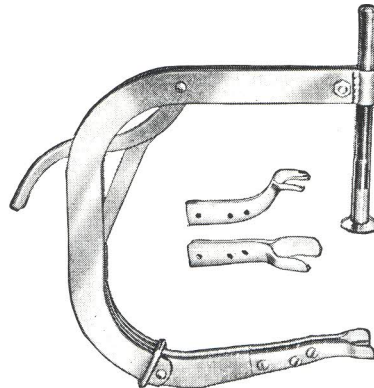
The No. CF 7 is the ideal tool for replacing all types of split keys on Chrysler, Dodge, DeSoto, Plymouth, Studebaker, and other late model motors. The sliding base prevents the keys from dropping into the motor. Simple to load; easy to operate; much safer than grease.

No. • 9842 Hydraulic Valve Lifter



This puller easily removes seized lifters from straight or "V" engines. Contains 2 adaptors for larger or small engines. A must for any repair shop.

No. CF 11 Valve Lifter
Universal "C" Clamp Type



Height $10\frac{1}{4}$ "; Width $9\frac{1}{2}$ "; Handles $1\frac{1}{8}$ " to $1\frac{3}{4}$ " spring.

Equipped with CF 21 Straight Jaws. CF 22 Offset Jaws are included in package.

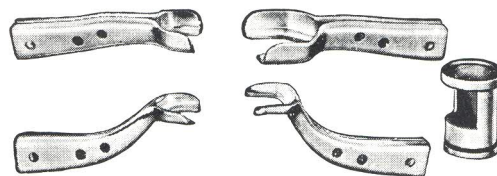
Recommended for all Valve-in-Head Automotive Motors and L-Head Motors which allow working room for the tool. Truly a one-man tool. Easy control. Designed for use with Split Lock Replacer CF 7 for easy and sure handling of Locks without a fumble.

No. CF 16 Valve Lifter

Same as CF 11, but larger.

Height $10\frac{1}{2}$ "; Width 12". Takes 1" to $2\frac{1}{2}$ " dia. springs. Equipped with CF 21, CF 22 B, and CF 23 jaws. Especially designed for trucks, buses, tractors, heavy duty motors, also for marine and diesel engines.

Extra Jaws and Adapter for CF 11



CF 21 Straight Jaws — $1\frac{1}{8}$ " to $1\frac{3}{4}$ " capacity. Designed to work with CF 7 Lock Replacer.

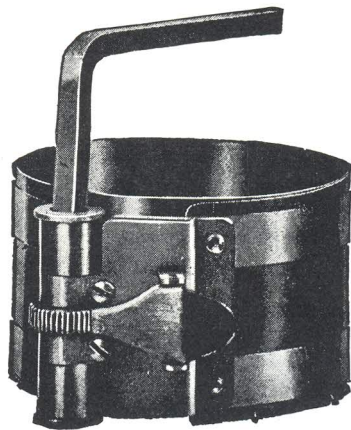
CF 22 Offset Jaws $1\frac{1}{8}$ " to $1\frac{3}{4}$ " capacity. Designed to work with CF 7 where Tappet Chamber opening is limited.

CF 23 Large Straight Jaws — $1\frac{5}{8}$ " to $2\frac{3}{4}$ " capacity. Designed for use on Heavy Duty Equipment. Contains large spring openings.

CF 26 Special Adapter — Designed for Cadillac Cars, and Minneapolis - Moline Tractors. Used with CF 11, equipped with CF 21 Straight Jaws and CF 7 for replacement of the Valve Locks.

Piston and Special Tools

Piston Ring Compressors

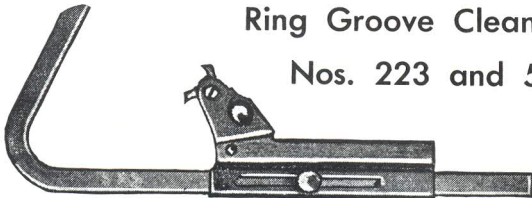


These improved ring compressors are a definite improvement over anything previously offered. The self locking pawl will hold the compression band at any point, and in addition a double tension band is provided. This band of high grade spring steel will reduce breakage to a minimum, and will eliminate flare out at the bottom of the compressor. The handle is made of $\frac{1}{4}$ " stock and can easily be replaced if lost. The beaded

edge will prevent the compressor from entering the cylinder. These tools are made in four sizes, as follows:

- No. RC 1 for cars $2\frac{1}{2}$ " to 5" — Non-locking.
- No. RC 2 for cars $2\frac{1}{8}$ " to 5" — Self-locking.
- No. RC 3 for trucks and Diesel engines with range of $3\frac{1}{2}$ " to 7".
- Nos. RC 2 and RC 3 Piston Ring Compressors have been modified so that they can be used on late model Chevrolet and Ford products.
- No. RC 4 same as RC 3 but $6\frac{1}{2}$ " in height with four tension bands.
- No. RC 5 midget ring compressor for British and other foreign cars, also ideal for small gas engines capacity $1\frac{1}{2}$ " to 3".

Ring Groove Cleaners Nos. 223 and 564

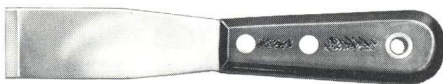


Handy and practical tool, which should be in every garage. The cutters can be instantly adjusted to the desired size and will handle pistons from the smallest to 6" O.D. Where a groove has to be deepened for the installation of inner rings this tool is ideal.

- No. 223 — Cutter sizes, $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ ".
- No. 564 — Cutter sizes: $\frac{3}{32}$ " & $\frac{5}{64}$ ", and one each $\frac{5}{32}$ " & $\frac{3}{16}$ ".

Parts Not Interchangeable

838 Carbon Scraper



No. 840 Wire Scratch Brush



A good quality brush for removing dirt, grease and carbon.

Preset Tension Glaze Breaker

Model CF 63



Capacity 2" to $5\frac{1}{4}$ " Dia.
Replacement Hones
(Set of 3) 2" Long
CF-63-1 Medium Grit
CF-63-14 Fine Grit



Preset Tension Glaze Breaker

Model CF 61

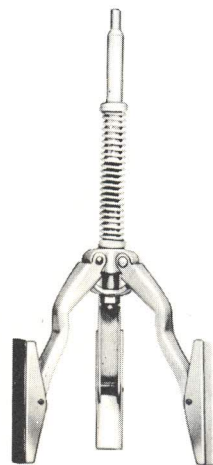


Capacity 2" to $5\frac{1}{4}$ " Dia.
Replacement Hones
(Set of 3) 3" Long
CF-61-12S Medium Grit
CF-61-14S Fine Grit

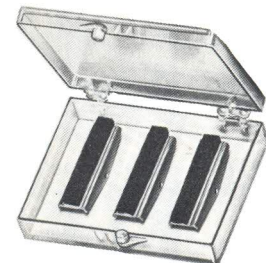


Preset Large Capacity Glaze Breaker

Model CF 62



Capacity 2" to 7" Dia.
Replacement Hones
(Set of 3) 4" Long
CF-62-12S Medium Grit
CF-62-14S Fine Grit



For Specialized Services



Since 1912

Expansion Reamers, Pilots

(CYLINDER RIDGE REAMERS)



Individual Reamer Specifications

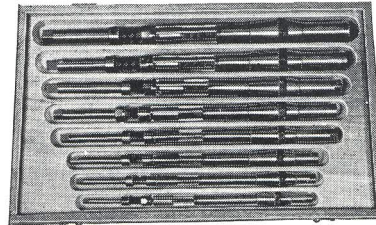
Reamers	Size	Length Overall		No. of Blades	Pilots
		Reamer	Blades		
8 A reamer	1/4" to 3/32"	3 1/2"	1 5/8"	4	395 shank
7 A "	9/32" to 3/16"	3 3/4"	1 5/8"	4	396 "
6 A "	5/16" to 1/8"	4"	1 5/8"	4	397 "
5 A "	11/32" to 3/8"	4 1/4"	1 7/8"	4	398 "
4 A "	3/8" to 13/32"	4 1/2"	1 7/8"	4	399 "
3 A "	13/32" to 7/16"	4 3/4"	1 7/8"	6	400 "
2 A "	7/16" to 15/32"	5"	1 7/8"	6	401 "
A "	15/32" to 17/32"	5 1/4"	2"	6	A pilot
B "	17/32" to 19/32"	5 3/4"	2"	6	B "
C "	19/32" to 21/32"	6 1/4"	2 1/4"	7	C "
D "	21/32" to 23/32"	6 3/4"	2 1/4"	7	D "
E "	23/32" to 25/32"	7 1/4"	2 1/2"	7	E "
F "	25/32" to 27/32"	7 3/4"	2 1/2"	7	F "
G "	27/32" to 15/16"	8 1/4"	3"	7	G "
H "	15/16" to 1 1/16"	8 3/4"	3"	7	H "
I "	1 1/16" to 1 3/16"	10"	3 1/2"	7	I "
J "	1 3/16" to 1 11/32"	11"	3 1/2"	7	J "
K "	1 11/32" to 1 17/32"	12"	4"	7	K "
L "	1 17/32" to 1 23/32"	13"	4"	7	L "
M "	1 23/32" to 2 3/32"	15"	5 1/4"	7	M "
N "	2 3/32" to 2 3/4"	17"	5 3/4"	7	N "
O "	2 3/4" to 3 11/32"	19"	6 1/2"	7	O "

NOTE—When ordering pilots only, simply specify the reamer size. Shanks used for reamers 8A to 2A.

NOTE—The following repair parts are available for each size of reamer from 8A to O.

- complete sets of spare blades
- nut
- collar

repair parts are described and listed in the price list under the corresponding reamer number.

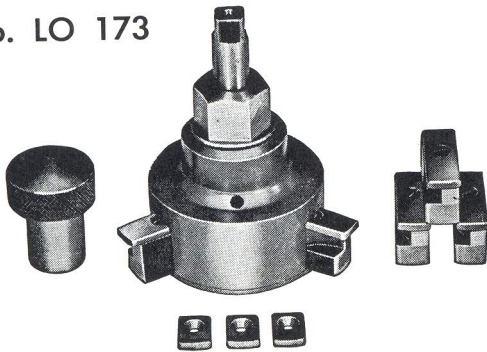


Set No. LO3 (with Pilots Attached)

No. LO 1 Set contains 8 reamers without pilots from 1/32" to 1 1/16" (sizes A-H) in wooden box. As illustrated.

No. LO 3 Set contains the same reamers as **LO 1 Set**, but with pilots attached.

No. LO 173



Universal Cylinder Ridge Reamers

No. LO 173 SET AS ILLUSTRATED contains two sets of three blades with strips to ream 2 5/16" to 3 3/4" and 3 3/4" to 4 7/8", one set of three filler strips and operating knob in metal box.

No. LO 171 Set for small bore cars, contains one set of three blades with strips, cutting range 2 3/16" to 3 3/16", one set of three filler strips and operating knob, in metal box.

No. LO 173A Set contains one set of three blades with strips, cutting range 2 5/16" to 3 3/4", one set of three filler strips and operating knob, in metal box.

No. LO 173B Set contains one set of three blades with strips, cutting range 3" to 4 3/16", one set of three filler strips and operating knob, in metal box.

PARTS FOR ABOVE SETS

No. LO 180 Set of three blades with strips, cutting range 2 3/16" to 3 3/16", for number LO 171 ridge reamer.

No. LO 181 Set of three blades with strips, cutting range 2 5/16" to 3 3/4", for number LO 173 and LO 173A ridge reamer.

No. LO 182 Set of three blades with strips, cutting range 3 3/4" to 4 7/8", for number LO 173 ridge reamer.

No. LO 183 Set of three blades with strips, cutting range 3" to 4 3/16", for number LO 173B ridge reamer.

Set of three blade strips, and 3 screws, give cutting range.

Set of three filler strips, and 3 screws, give cutting range.

No. LO 197 Operating Knob.

TRUCK, TRACTOR AND BUS SIZE

No. LO 174 Set contains one of three blades with strips, cutting range 4 7/8" to 6 1/16", one set of 3 filler strips and operating knob, in cardboard box.

PARTS FOR NUMBER LO 174 SET ONLY

No. LO 178 Set of three blades with strips, cutting range 4 7/8" to 6 1/16", for number LO 174 ridge reamer.

No. LO 179 Special set of 3 blades with strips, cutting range 6 1/16" to 8", for number LO 174 ridge reamer.

Set of three blade strips and three screws, give cutting range.

Set of three filler strips and three screws, give cutting range.

No. LO 198 Operating Knob.



Pullers

1001



No. 1001 with $\frac{1}{2}$ " screw 6" long, is ideal for small work. Maximum reach is $3\frac{1}{2}$ "; maximum spread is 6".

1002



No. 1002 is "an all purpose" tool which will handle a wide range of work. Screw is 9" long by $\frac{1}{16}$ " diameter. Maximum reach is $5\frac{1}{2}$ "; maximum spread is 8".

1003



No. 1003 is a H. D. Puller with $\frac{1}{16}$ " diameter, 12" long screw. Maximum reach is 9"; maximum spread is 12".

This Puller is designed to pull Balancers, Vibration Dampers, Pulleys or any gear with tapped holes. The four slots in the yoke, allows the use of this Tool in either two or three hole applications. The Floating Swivel prevents damage to shaft ends. Included are the necessary Side Screws — (3) $\frac{3}{8}$ " — 24 x 2" — (3) $\frac{5}{16}$ " — 18 x 2" — (2) $\frac{3}{8}$ " — 16 x 4". This versatile Puller is a "Must" for every good mechanic. Range — $1\frac{3}{8}$ "- $3\frac{3}{16}$ ".

No. 827 Universal Wheel Puller



The best, simplest, and sturdiest wheel puller ever developed. Has tremendous power, yet cannot bend or otherwise damage the wheel lugs.

With the three regular legs, shown above, it works perfectly on over 98% of all makes of cars.

The screw has very fine threads, which give it an extremely powerful leverage. In addition, the puller is equipped with a sliding bearing through which the driving screw rides. This feature makes it possible for the operator to attach the puller to the studs, then draw the screw tightly against the axle and with a light blow of a hammer, remove the most stubborn hub. Extends to include 8 inch bolt circle.

Another feature is the floating cap on the screw end. This centers on the axle, avoiding injury to either axle or puller.

The driving end is forged with a hexagon head which firmly holds the driving handle. The handle driving bar can be eliminated if it is desired to turn the screw up with an ordinary socket or open end wrench.

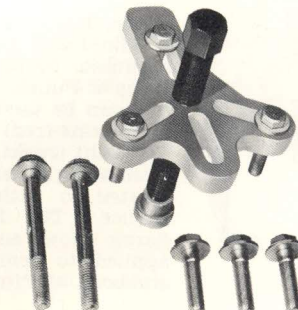
No. 827 L — Extra Leg for Above

No. 827 H Handle



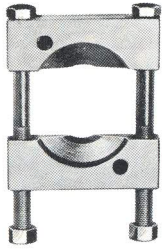
Designed especially for No. 827 Wheel Puller. Drop forged and heat treated.

P200 Harmonic Balancer Puller



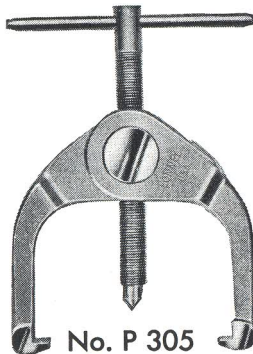
Pullers

No. P 501 Bearing Splitter



Designed for removing Generator Gears, Bearings, Bearing Cones and similar parts, where ordinary Puller Jaws will not reach. The knife edges are flush on one side to get behind the work for easy pulling. No. P309, Timing Gear Puller, can be used in conjunction with this tool, also No. 1001, Gear Puller. Capacity 0"-2¼".

No. P 503 Bearing Splitter Capacity 0" — 4¼"



No. P 305 Two-Arm Gear Puller

This two-arm Puller has a wide range of applications in the service shop.

Maximum reach is 2¾ inches in depth.

Maximum spread is 3½ inches.

No. P 305



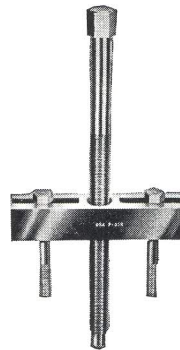
No. P 500 Sliding Hammer Puller

Especially designed for rear axle work, for pulling bearing races and grease seals, this Sliding Hammer Puller makes easy work for the mechanic. The 2 Lb. Sliding Hammer, removes the tightest gear up to 4" in diameter. The Jaws can be reversed for pulling bearings. Cadmium plated. Shipping Weight 8 Lbs.

No. P 190 Pitman Arm Puller



This Universal Pitman Arm Puller eliminates the necessity for the mechanic to have several different types of Pullers to do this job. This tool can be used to remove the Pitman Arms from the majority of cars and light trucks. The Yoke is forged from a High Grade Alloy Steel, heat treated to withstand the toughest service. The Heavy Duty Center Screw allows enough pressure to be applied to remove even the most stubborn of Pitman Arms.



No. P 309

No. P 309 Timing Gear Puller

This is a general purpose puller for removing timing gears, fan assemblies, and other parts which are tapped to receive cap screws ⅜ inch in diameter.

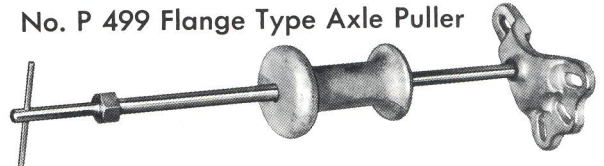
Parts for the No. P 309 Puller.

P 309-1.....Center Block, 5½" long.

P 309-2.....Forcing Screw, 11½" long.

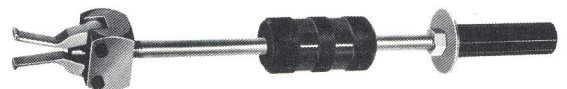
P 309-3.....Cap Screws (2), ⅜".

No. P 499 Flange Type Axle Puller



This tool can be used as a regular Wheel Puller or Hub Puller, as well as a Flange Type Puller. The bolt circles range is from 4½" to 5½", which covers all major cars and small trucks with flange type axles. The four slots in the adaptor allow this tool to be used on either 4, 5 or 6 Bolt or Stud designs. The Extra Heavy Sliding Hammer is what mechanics have been asking for and will get in this rugged Puller.

P 498 Pilot Bearing Puller



This Bearing Puller can be used for removing Sleeve Type Bearings from ½" to 1½" inside diameter on flywheels, pumps and generators. Turn the handle for quick adjustment and the center rod spreads the Alloy Steel Jaws for a tight fit inside the bearing.

Pullers

PO 11 Reversible Gear Puller

This puller is made in the same general design as the PO 12 and PO 12 L except smaller. The 3 Jaws provide a 3 point grip and extra power many times needed to pull gears, pulleys and other parts. Specifications:

Reach..... 3½"
 Spread..... 0" - 6"
 Center Screw..... ⅝ — 18 x 6⅞"

Part numbers are as follows:

PO 11-1..... Hub	PO 11-4..... Bolt
PO 11-2..... Screw	PO 11-5..... Arm 3½" reach
PO 11-3..... Link	PO 11-6..... Nut



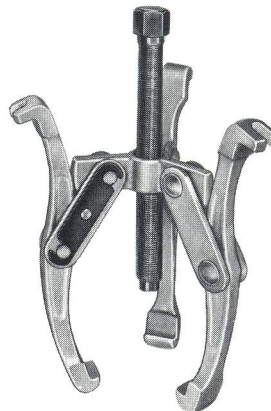
PO 12 Reversible Gear Puller

The PO 12 is a rugged puller that will handle the majority of pulling jobs in the automotive service shops. The 3 Jaws provide a 3 point grip and extra power many times needed to pull gears, pulleys and other parts. Specifications:

Reach..... 5½"
 Spread..... 0" - 8"
 Centre Screw..... ¾" — 16 x 8¾"

Part numbers are as follows:

PO 12-1..... Hub	PO 12-4..... Bolt
PO 12-2..... Screw	PO 12-5..... Arm 5½" reach
PO 12-3..... Link	PO 12-6..... Nut



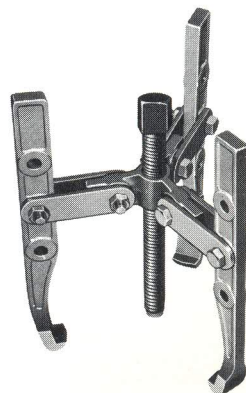
PO 12 L Reversible Gear Puller

Same as PO 12 above except that it has longer adjustable arms. The 3 Jaws provide a 3 point grip and extra power many times needed to pull gears, pulleys and other parts. Specifications:

Reach..... 9"
 Spread..... 0" - 10"
 Center Screw..... ¾ — 16 x 8¾"

Part numbers are as follows:

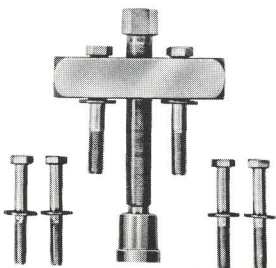
PO 12-1..... Hub	PO 12-4..... Bolt
PO 12-2..... Screw	PO 12 L-5..... Arm 8½" reach
PO 12-3..... Link	PO 12-6..... Nut



No. P 187 Steering Wheeler Puller

This tool is designed to pull steering wheels on all major automobiles. The Cross Arm is 4" long, made of 1" Square Steel. The Center Screw is ⅝ — 18 x 4". Only one Swivel is necessary on this tool. The Floating Swivel is recessed in the end so as not to damage the spring tip con-

nected to the horn wires on Buick and Cadillac. 3 Sets of Side Screws are provided — ⅜ — 16, ⅝ — 18 and ⅝ — 24 — long enough to fit the new style steering wheel on Oldsmobile. Cadmium plated. Shipping Weight 1¾ lbs.



For Greater Efficiency

Since 1912

Hammers



No. 212 Series

No. 212 Series — Ball Pein Hammers

Gray-Tool No. 212 Series Ball Pein Hammers are drop forged from selected steel and carefully heat treated. The handles are of straight grain hickory, securely fastened in the head with special iron S wedge. The No. 212 Series have head, pein and sides polished, with the balance finished in black enamel.

No.	Weight	No.	Weight	No.	Weight
212	3 lbs.	212 E	1½ lbs.	212 I	8 oz.
212 A	2½ lbs.	212 G	1 lb.	212 J	6 oz.
212 C	2 lbs.	212 H	¾ lb.	212 K	4 oz.



No. 33 Bell Face

No. 33 Garden City Brand Hammer

"Garden City" brand nail hammers enjoy very popular acceptance. The heads and claws are carefully hardened and full polished except front and back of throat, neck and under claws which are black enamel. Single locking wedge in clear finished quality hickory handle.

No.	Face	Weight	Handle Length
33	Bell	1 lb.	12¾"



No. PH Series

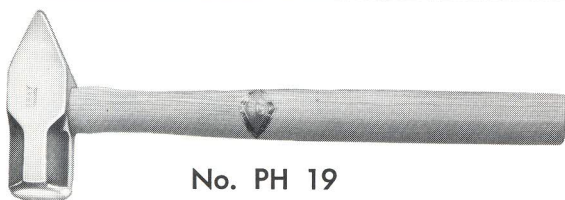
PH Series — Soft Face Hammers

Gray-Tool Soft Face Hammers are useful for fitting piston pins and similar jobs, and for body and fender work. The tips are of a tough, amber-colored composition material that will not mar a finely finished surface. New tip may be attached by turning the old one loose with a pipe wrench and pressing on the new tip. The hammer is properly balanced and the hickory handle is securely locked in the hand.

● Tips not guaranteed.

No.	Weight	Face Diameter
PH 18	¼ lb.	7/8"
PH 15	½ lb.	1 1/32"
PH 20	1 lb.	1 11/32"

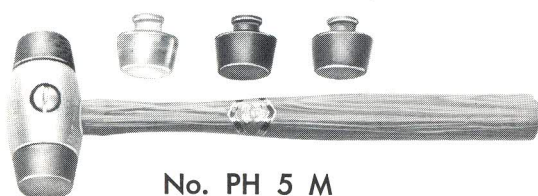
Extra tips are available for all PH Series hammers. To order, specify hammer number for tip required.



No. PH 19

PH 19 3 lb. Sledge Hammer

Drop forged from high grade steel and carefully heat treated. This is specially designed for all types of work where such a tool is needed. Head fully polished with hickory handle. Weight, 3 lbs. Length overall, 16".



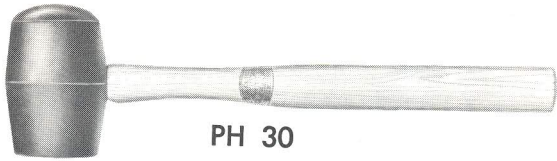
No. PH 5 M

No. PH 5 M Multi-Head Hammer

This hammer is designed so that the changing of faces is a matter of seconds. The head is made of forged steel carefully machined, so that the heads are locked firmly in position. The hammer comes complete with five tips: Pyralin, copper, lead, rubber and composition.

- No. PH 5 M — Complete with tips.
- No. PHP — Extra Pyralin tip.
- No. PHB — Extra Composition tip.
- No. PHR — Extra Rubber tip.
- No. PHL — Extra Lead tip.
- No. PHC — Extra Copper tip.

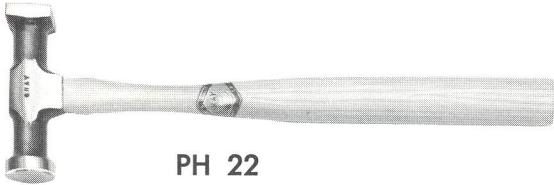
Body Hammers



PH 30

No. PH 30 Fender Mallet

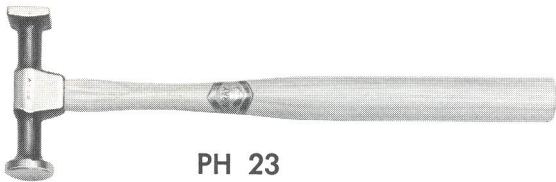
Has rubber composition head. It will not shatter, chip or split. Equipped with hickory handle. Head $2\frac{1}{2}$ " diameter, $4\frac{1}{2}$ " long. Handle $13\frac{1}{2}$ " long. Weight $1\frac{3}{4}$ lbs.



PH 22

No. PH 22 Bumping Hammer

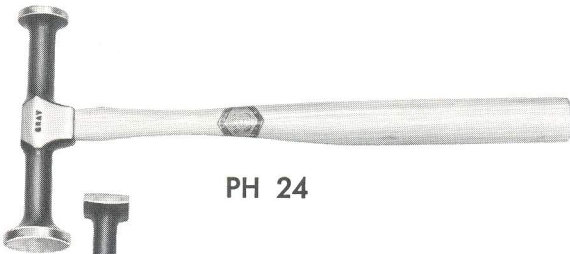
This hammer has polished faces and black body. Head 4" long. Round face, $1\frac{1}{4}$ " in diameter. Square face, $1\frac{1}{8}$ " square. Overall length, 13". Weight, 14 ozs.



PH 23

No. PH 23 Light Bumping Hammer

A light weight finishing hammer with head having polished faces and black body. Head, 4" long. Round face, $1\frac{1}{4}$ " in diameter. Square face, 1" square. Overall length, 13". Weight, 9 ozs.



PH 24

No. PH 24 Dinging Hammer

A finishing hammer with faces crowned and polished; body of head finished in black. Head 6" long. Large face, $1\frac{5}{8}$ " in diameter. Small face, $1\frac{1}{4}$ " in diameter. Overall length, 13". Weight, 13 ozs.



PH 25

No. PH 25 Light Dinging Hammer

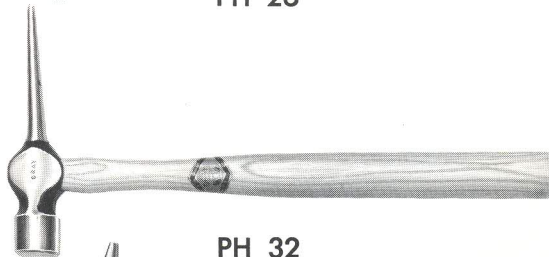
A sturdily made, light weight finishing hammer. Head $6\frac{1}{2}$ " long. Large face, $1\frac{1}{4}$ " square. Small face, $1\frac{1}{6}$ " in diameter. Overall length, 13". Weight, 10 ozs.



PH 26

No. PH 26 Special Bumping Hammer

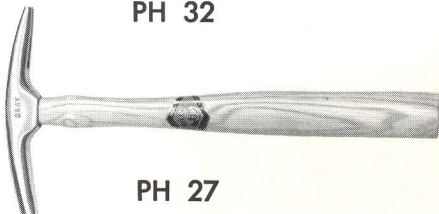
The head is drop forged with bullet shaped end which makes it easy to remove small dents. Face of the head is polished with body finished in black. Strong hickory handle. Head, 4" long, $1\frac{5}{8}$ " diameter. Weight, 7 ozs. Overall length 13".



PH 32

No. PH 32 Hammer

The new ph 32 hammer redesigned with a spiked tip, is drop forged from selected steel and carefully heat treated. The handles are of the highest quality, straight grain hickory and fastened with special "S" wedges. Face is polished, body finished black. Head, $6\frac{3}{4}$ ". Face $1\frac{1}{8}$ " in diameter. Overall length 14".



PH 27

No. PH 27 Upholsters' Magnetic Hammer

Head is polished all over and one end is magnetized. Head is $5\frac{1}{2}$ " long. Overall length, 11". Weight, 7 ozs.

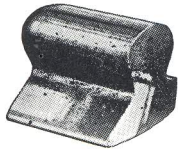


For Extra Heavy Repairs

Since 1912

Dolly Blocks, Door Handle Tools and Spoons

General Purpose Dolly Block



No. F6 — Full surface ground and polished. Weight, 3 lbs. Drop forged steel.

Wedge Dolly Block



No. F5 — Especially designed for work on turret tops. Length, $5\frac{1}{4}$ ". Width, $2\frac{1}{2}$ ". Weight, $2\frac{1}{2}$ lbs.

No. DHT 125 Lock Clip Remover

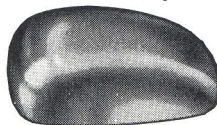


No. F 2 Toe Dolly Block



Drop forged of selected steel and full surface ground and polished. Thickness, 1". Weight, $2\frac{1}{2}$ lbs. Length, $4\frac{3}{4}$ ". Width, $2\frac{1}{4}$ ".

Bar Dolly



No. F4 — Drop forged steel and full surface ground and polished. Weight, $3\frac{3}{4}$ lbs. Length, $4\frac{1}{2}$ ". Width, 2". Thickness $1\frac{3}{8}$ ".

No. DHT 126 Door Handle Clip Remover
Used on G.M.C. and Ford Cars.

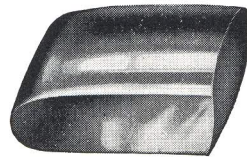


No. F 3 Heel Dolly Block



Drop forged of steel most suitable for this type of tool. Full surface ground and polished. Length, $2\frac{1}{2}$ ". Width, $3\frac{1}{8}$ ". Thickness, $1\frac{1}{2}$ ". Weight, $2\frac{3}{4}$ lbs.

Budd Dolly Block

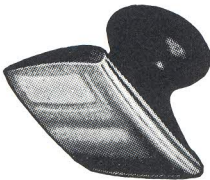


No. F7 — Drop forged of selected steel. Weight, 3 lbs.

No. DHT 115 G.M. Ford Lock Clip Tool



Large Hand Hold Dolly



No. F12 — Working surfaces are ground and polished. Weight, $3\frac{1}{2}$ lbs.

Small Hand Dolly Block



No. F10 — Working surfaces are ground and polished. Weight, $2\frac{1}{4}$ lbs.

No. DHT 100 Lock Clip Plier



No. DHT 118 Chrysler Door Handle Tool



Panel Spoon



No. F16 — Used in general body repair work and on turret tops. Forged of selected steel with polished working surfaces. Blade $2\frac{1}{4}$ " wide, $6\frac{1}{4}$ " long. Overall length, $11\frac{3}{4}$ ". Weight, $1\frac{1}{2}$ lbs.

Wide Body Spoon



No. F15 — Blade ground and polished. Dimensions of blade: $2\frac{1}{4}$ " wide, 5" long. Overall length, $10\frac{3}{4}$ ". Weight, $1\frac{1}{2}$ lbs.

Special Door Panel Spoon



No. F 13—It is handy for work between the fender bracket and fender metal where a dolly block can't be used. Blade is $2\frac{1}{4}$ " wide, $5\frac{1}{4}$ " long. Handle is $\frac{7}{8}$ " diameter. Weight $1\frac{1}{2}$ lbs.

Auto Body Tool Sets

No. BS 70 Set TECHNICAL SCHOOL BODY SHOP STUDENT SET

Contains 70 Pieces — Packed
in 2221 Box



Door Handle Tools

No.	Description
DHT100	Lock Clip Plier
DHT115	G.M. — Ford Lock Clip Tool
DHT118	Chrysler Door Handle Tool
DHT126	Clip Remover Tool

Allen Wrenches — W 9 LR Set, 9 pieces.

Dolly Blocks — No. F 3, No. F 6.

Body File — No. F 25.

Adjustable File Holder — No. F 31.

CONTENTS

$\frac{3}{8}$ " Drive

No.	Description	No.	Description
TH10	$\frac{5}{16}$ " S.H. Socket	T3	"U" Joint
TH12	$\frac{3}{8}$ " " "	T31	3" Extension
TH14	$\frac{7}{16}$ " " "	T4	6" Extension
TH16	$\frac{1}{2}$ " " "	T30	9" Flex Handle
TH18	$\frac{9}{16}$ " " "	T32	6" Cross Bar
TH20	$\frac{5}{8}$ " " "	T36	7 $\frac{3}{4}$ " Sliding T-Handle
TH22	1 $\frac{1}{16}$ " " "		Handle
TH24	$\frac{3}{4}$ " " "	T42	6 $\frac{1}{8}$ " Screwdriver Type
		T57	7 $\frac{1}{2}$ " Rev. Ratchet

Combination Wrenches

No.	Description
3112	$\frac{3}{8}$ " — 5" Long
3114	$\frac{7}{16}$ " — 5 $\frac{3}{8}$ " Long
3116	$\frac{1}{2}$ " — 6" Long
3118	$\frac{9}{16}$ " — 6 $\frac{3}{4}$ " Long
3120	$\frac{5}{8}$ " — 7 $\frac{3}{4}$ " Long
3122	1 $\frac{1}{16}$ " — 8 $\frac{5}{8}$ " Long
3124	$\frac{3}{4}$ " — 9 $\frac{1}{2}$ " Long
3128	$\frac{7}{8}$ " — 11" Long
3132	1" — 13 $\frac{1}{2}$ " Long

Screwdrivers

No.	Description
S04	4" — $\frac{5}{16}$ " Tip — 7 $\frac{1}{2}$ " Long
S06	6" — $\frac{7}{16}$ " Tip — 10 $\frac{1}{4}$ " Long
S08	8" — $\frac{1}{2}$ " Tip — 12 $\frac{1}{2}$ " Long
S012	12" — $\frac{9}{16}$ " Tip — 16 $\frac{3}{4}$ " Long
CP1	3" Fits 2,3,4 Phillips Screws
CP2	4" Fits 5 to 9 Phillips Screws
TP3	$\frac{3}{8}$ " Dr. Screw Driver
2612SD	Phillips Offset

Hammers

No.	Description
212C	2 lb. Ball Pin
PH22	14 oz. Bumping Hammer
PH26	7 oz. Bumping Hammer
PH30	1 $\frac{1}{4}$ lb. Rubber Mallet

Pliers

No.	Description
VG10R	10" Vise Grip
9R	9" Welding Clamp Plier
B654	7" Long Nose Plier
B310	10" Combination Plier

Punches and Chisels

No.	Description
C2	$\frac{3}{8}$ " stock — $\frac{1}{2}$ " Cut — 5 $\frac{1}{2}$ " Long
C5	$\frac{3}{4}$ " stock — $\frac{7}{8}$ " Cut — 7 $\frac{1}{2}$ " Long
C23	$\frac{3}{8}$ " stock — $\frac{1}{8}$ " Point — 6" Long
C24	$\frac{3}{8}$ " stock — $\frac{3}{16}$ " Point — 6 $\frac{7}{8}$ " Long
C28	$\frac{3}{8}$ " stock — $\frac{1}{8}$ " Point — 5" Long
C29	$\frac{3}{8}$ " stock — $\frac{3}{16}$ " Point — 5 $\frac{1}{2}$ " Long
C34	$\frac{3}{8}$ " stock — Pin Point — 5 $\frac{1}{4}$ " Long

Snips

No.	Description
B52	9 $\frac{3}{4}$ " Body Snips
S410	10" Straight Pattern Snips
2682	8" to 12" Adj. Tubular frame Hacksaw

Adjustable Wrench

No.	Description
ML8	8" Adj. Wrench

FB 19 Set

Contains 19 Pieces



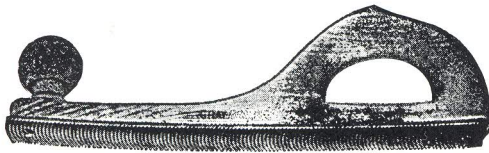
A complete set of fender hammers, dollies, spoons, file, etc., for the specialist in body and fender repair work. Packed in attractive metal chest with tote tray and strong padlock hasp. Chest size, 19 $\frac{7}{8}$ " x 8 $\frac{1}{2}$ " x 9 $\frac{3}{8}$ ".
Box No. 2220.

No.	Description
F 2	Regular or Toe Dolly Block
F 3	Heel Dolly Block
F 4	Bar Dolly
F 5	Wedge Dolly Block
F 6	General Purpose Dolly Block
F 7	Budd Dolly Block
F 10	Small Hand Hold Dolly
F 12	Large Hand Hold Dolly
F 13	Special Door Panel Spoon
F 15	Wide Body Spoon
F 16	Panel Spoon
F 25	Flexible Body File
F 31	Adjustable File Holder
PH 22	Bumping Hammer
PH 23	Light Bumping Hammer
PH 24	Dinging Hammer
PH 25	Light Dinging Hammer
PH 26	Special Bumping Hammer
PH 27	Upholsterers' Magnetic Hammer

Sets Are Best

Body Tools

Flat File Holder



No. F 24 — An inexpensive wooden file holder for the 14" body file.

Flexible Body File



No. F 25 — The application of the milling cutter principle to body files has produced a file that will last longer and do better work. Each tooth is individually milled, and the U shaped groove provides maximum clearance allowing the ribbon like shavings to be cleared quickly and easily. The elimination of packing and loading is a feature of this new file, and the teeth will maintain their razor like sharpness several times as long as the old V tooth file. Overall length, 14".

File and Holder Set

No. F 26 — For the shop using the F 25 14" file, this combination will prove to be excellent value. Six general purpose 14" files and a No. F 24 Holder for the ordinary cost of the files.

Adjustable File Holder



No. F 31 — Can be used on 14" files. This holder is strongly made, yet is light and handy. Can be adjusted for curving the file either outward or inward.

Hand Seamers No. 535



An excellent tool for hand seaming. Overall length 8", working surfaces 1" x 3 1/2", weight 1 lb. Drop-forged from Alloy Steel. Fully heat treated.

Body Snips



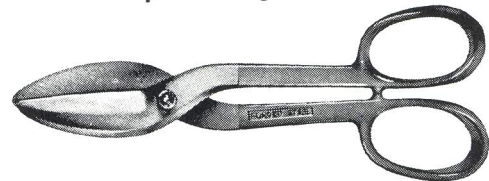
Compound leverage design provides strong, yet free and easy cutting power on all types of tough sheet metal including stainless steel and duralumin. The drop-forged steel jaws are serrated to provide a sure grip on the work. They are spring-actuated. The jaws are 2 1/2" long, handles 6 3/4". The overall length is 9 3/4".

No. B 52 — Universal, straight cut.

No. B 52 L — Left hand cut.

No. B 52 R — Right hand cut.

Snips: Straight Pattern



These snips are of excellent quality. They are made from a one-piece drop forging, precision ground and hand polished. The cutting edges are keen and will give long and satisfactory service.

New No.	Length	Cut
S 47	7"	1 3/4"
S 410	10"	2 1/2"
S 412	12"	3"

Snips: Combination Circle Pattern



The combination circle pattern snip is an all-purpose snip. It will cut either right or left-hand direction. This extra slim snip is ideal for garage mechanics, as well as metal workers.

77 D	7"	1 3/4"
107 D	10"	2 1/4"
127 D	12"	3"

No. B49 Light Metal & Wire Cutting Shear



1 1/4" cut — 6 1/2" Long.

Brake Tools

New Improved Brake Adjusting Tool For use on all late model cars No. 2564



Blade size .530", length 7 $\frac{7}{8}$ ", made from alloy steel.

Nos. 2566 and 2566 A Brake Tools

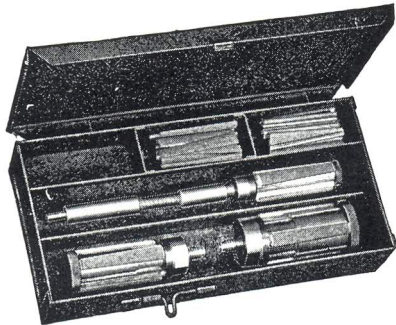


For making brake adjustments on cars equipped with Bendix brakes. Forged from alloy steel.

No. 2566 has $\frac{1}{2}$ " blades, is 8 $\frac{1}{2}$ " long.

No. 2566 A has $\frac{1}{2}$ " blades with one straight end, is 9" long.

No. LO 925 Brake Cylinder Hone



No. LO 925 — Range $\frac{3}{4}$ " to 1 $\frac{7}{8}$ ", contains four bodies three sets of three blades (small, medium and large), with abrasives mounted, eighteen extra abrasives (nine coarse and nine fine). Special 1" cup screw to be used on medium size body when honing step bore cylinders and flexible driving shaft adaptable to $\frac{1}{4}$ " or $\frac{1}{2}$ " electric drill, put up in neat metal box.

Individual parts for LO 925 set:

LO 899 C — Coarse hone abrasives (1 dozen).

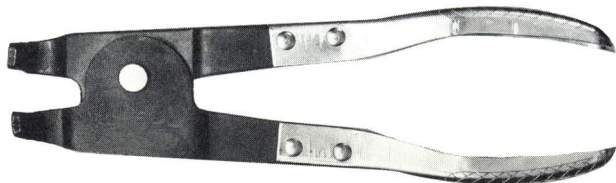
LO 899 F — Fine hone abrasives (1 dozen).

LO 920 — Flexible driving shaft.

No. 550 — Caliper Piston Pliers for Disc Brakes

Works on single and four piston calipers

Hardened steel jaws firmly clamp to inside of piston for quick, easy removal.



Jaws are adjustable to two positions for small diameter pistons and large single caliper pistons.

No. J89 Brake Spring Tool



For Bendix and other brakes using a spring that hooks over a post. Socket end is slipped over post and turned to receive spring into eccentric grooved lip. Spring then lifted off with the tool. Easily replaced over post with other end of tool.

No. J90 Brake Spring Tool



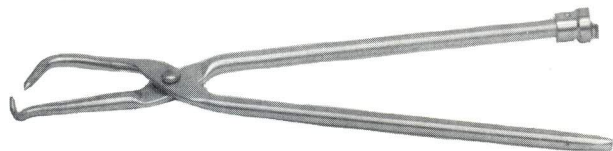
This handy tool is made for cars with brake springs that hook into a hole in brake shoe. Knob end is made of alloy steel for extra long life and is used to remove brake springs easily. Other end which is tapered and correctly curved makes an easy job of inserting spring. Tool does not touch the brake lining.

No. 531 Brake Spring Compressor



Place tapered end of tool on steel cup, then place index finger of other hand on head of pin located on rear of back-up plate. Push in on tool until arrow head of pin is uncovered. Make one quarter turn — release pressure and the cup comes off the spring. Fits all regular and flat cups.

No. 525 — 13" Brake Spring Plier



An extra slim, light brake plier designed for use on all passenger cars and light trucks.

No. 534 Truck Brake Spring Plier



Forged, heavy duty truck brake spring plier. Heavy plating for a rust resistant finish.

Additional needed Disc Brake Tools

No. CF63 Disc Brake Cylinder Hone pg. 71

Micrometer, Sensory, Standard Torque Wrenches pgs. 53, 54, 55.

Refrigeration Tools • Reamers • Thread Restorers

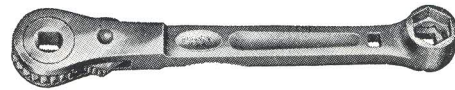
Non-Reversible Ratchet



This type of ratchet, made with four different size ratchet openings, is forged of alloy Steel with plated finish. The ratchet is fully enclosed to keep out all dust and dirt.

No.	Ratchet Opening Square	Handle Opening Square	Handle Opening Hexagon	Length
RF 21	3/16"	3/16" & 1/4"	1/2"	6"
RF 22	1/4"	3/16" & 1/4"	1/2"	6"
RF 23	5/16"	3/16" & 5/16"	1/2"	6"
RF 25	3/8"	3/16" & 1/4"	1/2"	6"

Reversible Ratchet No. RF 45A



The ratchet opening is 1/4" square, the openings in the handle are 3/16" and 1/4" square and 1/2" hexagon socket. The tool is drop forged and plated. Overall length 6".

1/4" Male Drive



For use with any ratchet handle having 1/4" opening and Gray ratchets Nos. RF 22 and RF 45A.

No.	Size Square Opening	Outside Diameter		Length
		Nose	Shank	
RF 2	3/16"	27/64"	1/2"	1 5/16"
RF 5	7/32"	1/2"	1/2"	1 5/16"
RF 3	1/4"	1/2"	1/2"	1 5/16"
RF 4	5/16"	9/16"	9/16"	1 5/16"

Flare Nut Wrenches available on page 40 of this catalogue

Tube Cutting and Flaring Tools available on page 67 of this catalogue

Reamers

Very useful for removing burrs, enlarging and aligning holes in sheet metal, aluminum, etc., also handy for starting taps. Constructed with round shanks making them adaptable for use with an electric drill by removing T-handle.

Sufficiently oversize so they may be resharpened and still maintain full range.

No. 57 Reamer

Size 1/16" — 1" 5 3/4" Long



No. 56 Reamer

Size 1/8" — 1/2" 5 5/8" Long



EXTERNAL THREAD RESTORER

Available separately these Thread Restorers are fast cutting and do a quick job in restoring damaged threads. For use with standard design wrenches or sockets. Ideal for use in limited space. Will not harm good threads but designed to remove only the damaged portion.

These file type Thread Restorers save time and trouble when you have to contend with damaged threads. A few strokes across battered threads produce a true new thread — nut will then go on easily. Add a pair to your service kit.



7 pcs. Set F-7 TR
S.A.E. 1/4" to 3/8"



7 pcs. Set C-7 TR U.S.S. 1/4" to 5/8"



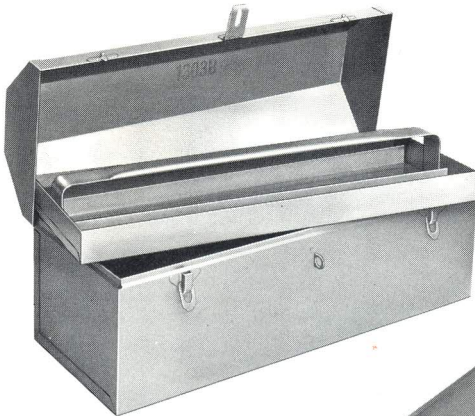
No. TR 2T — has 8 thread sizes — 9, 10, 12, 16, 20, 27, 28 and 32 threads to the inch.



No. TR 1T — has 8 thread sizes — 11, 12, 13, 14, 16, 18, 20 and 24 threads to the inch.

Tool Boxes

Box No. 2203



A Heavy Duty Tool Box that is very popular with mechanics for medium sized tool sets and is ideal for service calls, etc., as it has a large tote tray.

Made from heavy gauge steel with strong handle. Padlock hasp and finished in red.

Size — 19" x 7" x 7".
Weight 8 lbs.

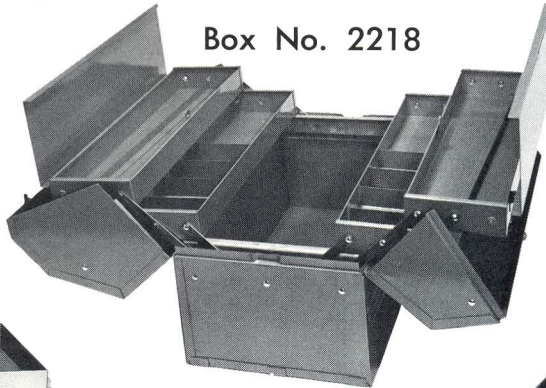
Used in Set Numbers:
TG34, TG48, 1504.

Box No. 2219



Heavy gauge high quality box, reinforced handy steel handle and heavy draw pull catch. Size 19" x 7" x 7". Approx. 8 lbs. Used in Set Numbers: SW44, SW35.

Box No. 2218



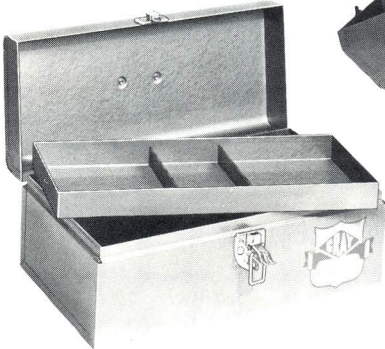
MECHANIC'S BOX is a premium quality heavy duty chest. Four cantilevered trays for small tools and parts opens wide for easy access to huge capacity bed. Two trays have socket dividers and hinged covers.

Outside dimen.: 18" x 10" x 13".

Trays: 16 3/4" x 4 1/2" x 1 1/2".
Individual cartons.

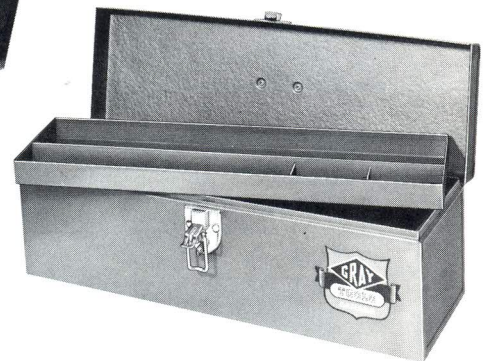
Approx. ship. wt. 21 lbs.

Box No. 2207



This is a very popular small tool box for the mechanic and car owner, the Tray has three sections for small tools, etc. Has a snap-lock which avoids spilling and accommodates padlock. Size—14" x 6" x 5".

Box No. 2209



An exceptional value in a large size low priced tool box. The lift out tray gives full access to the extra long and roomy interior. Sections are designed to hold both small parts and long tools. Small wonder it is such a popular box with mechanics and service men.

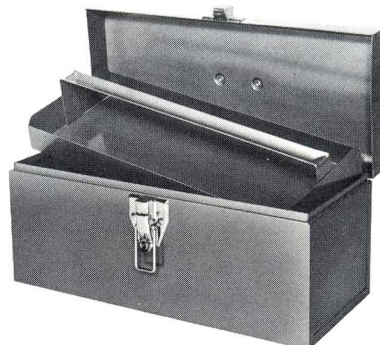
Size — 19" x 6" x 6 1/2".

Box No. 2204



Designed for heavy duty sets of tools, has piano type hinge, carrying handles. Size 26 1/2" x 6" x 6 1/2". Used in Set Numbers: HD31, XH25, XH16.

Box No. 2208



Box has full length tote tray and piano hinge. Ideal for small tools, parts and tackle. Size 14" x 6" x 6 1/2".

Box No. 2210

Heavy duty box ideal for industrial use.



Size

21 1/2" x 8 3/8" x 3 1/4"

Used in Set Numbers:

HD12, HD25, HD21, HD15, M9341.



Since 1912

For Specialized Services

Tool Chest and Roller Cabinets



No. 2250 Master Chest

The 2250 Master Chest is made of heavy gauge sheet metal with baked red enamel finish. The fold-over front which covers the drawers has a built-in lock with key. Outside dimen.: 26" x 12" x 14".
 2 drawers: 11" x 5½" x 2".
 1 drawer: 11" x 12¾" x 2".

2 drawers: 11" x 23" x 2".
 1 drawer: 11" x 23" x 3".
 Individual cartons.
 Approx. ship wt. 65 lbs.
 Tote Tray. Divided with two socket and one general tool compartments.

Model 2260 Roller Cabinet

3 large drawers plus additional drawer channels. By sliding in extra drawers it becomes the most complete cabinet available. Carries up to 7 drawers in 5 arrangements. Must be ordered as illustrated.

Outside dimen.: 18" x 27" x 34".
 3 drawers: 16½" x 24" x 4".
 Lower space: 17" x 27" x 12".
 Individual cartons.
 Approx. ship. wt. 100 lbs.



Nos. 2250 and 2260 Assembly



No. 2270 Heavy Duty Chest

Has 12 extra deep drawers. Outside dimen.: 26" x 17" x 19".
 6 drawers: 15½" x 4½" x 2".
 2 drawers: 15½" x 5½" x 3".
 1 drawer: 15½" x 5½" x 6¼".

2 drawers: 15½" x 23" x 2".
 1 drawer: 15½" x 23" x 3".
 Individual cartons.
 Approx. ship. wt. 112 lbs.



Tool Boxes and Drawer Inserts

No. 2221 Box

Heavy duty mechanics tool box has two large drawers and full size tote tray, continuous hinge on both lid and front cover which covers and locks drawers.

21" x 8½" x 9¾", weight 28 lbs.



Used in Set Numbers:
SW47, SW70, BS70.

No. 2220 Box

Large heavy duty box complete with tote tray that has a socket divider. Draw pull catches with built-in padlock hasp.

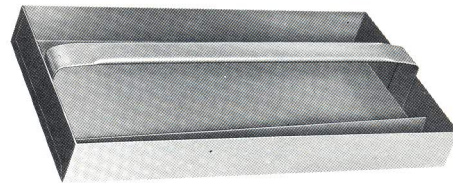
20" x 8½" x 9½", weight 13 lbs.



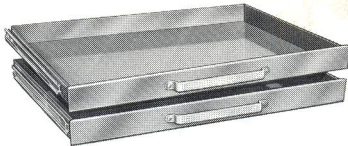
Used in Set
Numbers FB19

No. 2206 Tote Tray

An extra strong tote tray for garage use.
19½" x 7¾" x 1¾", weight 3½ lbs.



No. 2262 Drawer Sets

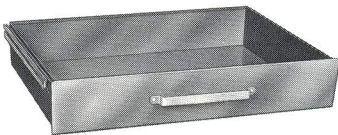


Sold in pairs only

Approx. dimen.
24" x 16½" x 2",
weight 15 lbs.

No. 2263

Approx. dimen. 24" x 16½" x 4".
Weight 10 lbs.



No. 2264

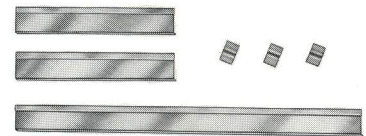
Strong shelf attachment collapsible, with mounting cap screws, for 2260 — 13" sq.



Drawer Divider Sets

Contain one long and two short and three clips.

For 2250 order No. 2251
For 2260 order No. 2261
For 2270 order No. 2271



Additional Drawers for No. 2260 Cabinet

An exclusive feature of the 2260 Roller Cabinet allows flexible use of space and increased drawer capacity as needed. By adding the accessories illustrated above you can make up all these combinations:

A standard 2260 Roller Cabinet with the addition of one pair of No. 2262 drawers.



A standard 2260 Roller Cabinet with the addition of two pairs of No. 2262 drawers.



A standard 2260 Roller Cabinet with the addition of one No. 2263 drawer plus a No. 2264 end shelf, (down).



A standard 2260 Roller Cabinet with the addition of one pair of No. 2262 drawers and one No. 2263 drawer.



A standard 2260 Roller Cabinet with the addition of two No. 2263 drawers plus one No. 2264 end shelf, (up).



Sets Are Best

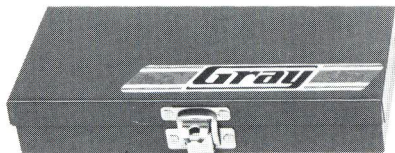


Since 1912

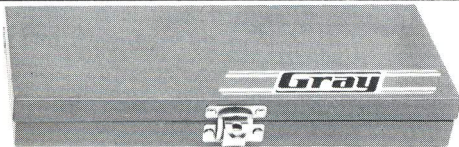
Small Tool Boxes and Socket Trays



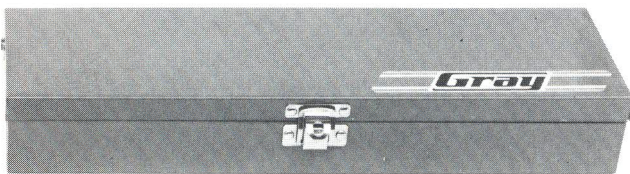
Box No. 2201 Size — $20\frac{3}{8}$ " x $6\frac{3}{8}$ " x $2\frac{1}{2}$ ".
USED IN SET NUMBERS: M9387, M9124, TG27, TG21, SW20, SW23, SW15, 1503.



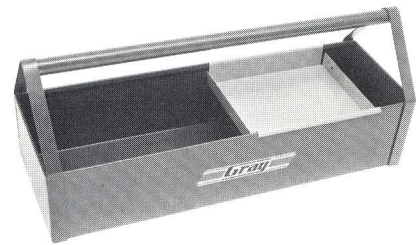
Box No. 2281 Size — 7" x $3\frac{1}{4}$ " x $1\frac{1}{4}$ ".
 Our sturdy Mini Model. Baked red enamel finish with Gray decal.
USED IN SET NUMBERS: M9140, M9142, M9383, SVS11, SVS15, VS100, VS120, TUJ6, TUJ12.



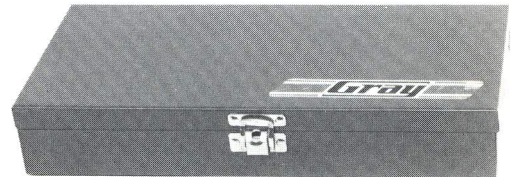
Box No. 2282 Size — $9\frac{1}{2}$ " x 4" x $1\frac{1}{4}$ ".
 The versatile mid model. Red epoxy finish. Accenting decal.
USED IN SET NUMBERS: M9372, S111, S113, TG10, VS180.



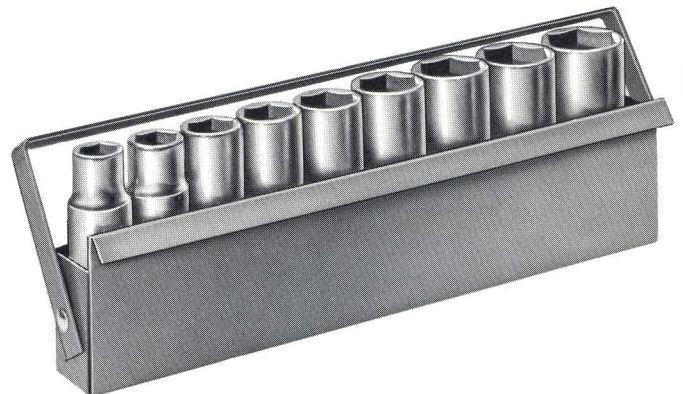
Box No. 2284 Size — 17" x $5\frac{1}{2}$ " x $1\frac{1}{4}$ ".
 A good capacity model. Attractively finished in red with accenting decal.
USED IN SET NUMBERS: 1502, M250 M9112, S114, SW12.



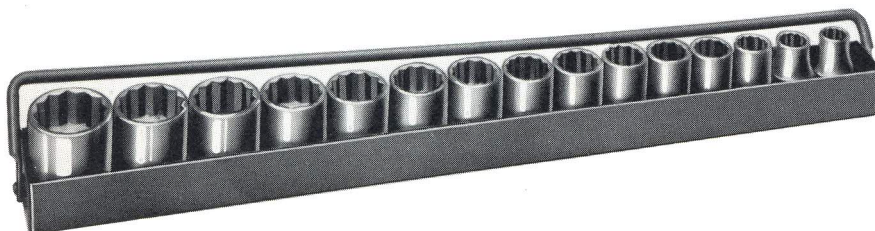
Tool Toter No. 2290 — 19" x 7" x 7".
 Made of heavy gauge steel this toter keeps tools and parts neatly in order. Handy sliding tray. A great item for servicemen. Makes carrying tools to the job site easy. Finished in attractive blue and orange enamel.



Box No. 2285 Size — 11" x $5\frac{1}{2}$ " x $1\frac{3}{4}$ ".
 The handy model. Finished in red with accenting Gray decal.
USED IN SET NUMBERS: 1501, MT130, S120, TG15, VS250.



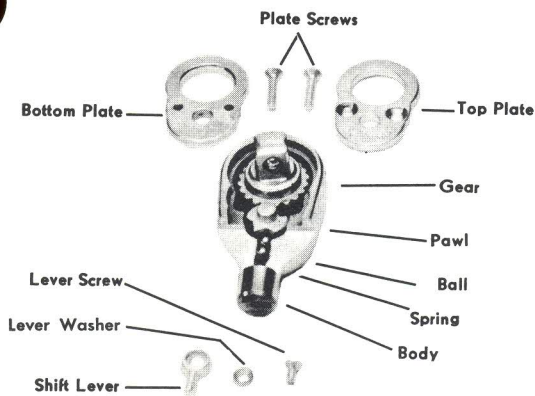
TRAY NUMBER	CONTAINS SETS — DEEP SOCKETS
1911	LT11DH, LT11SH
1914	LDS9
1915	LT9DH, LT9SH
1916	LD10, M9122



TRAY NUMBER	CONTAINS SETS — REG. LENGTH
1912	T11DH, T11SH
1913	SW15T
1919	SW14T
1920	M9121
1921	M115
1922	M9381, MT111
1923	M9141

Repair Parts

All Repair Kits and Necessary Part Numbers are Itemized in the Price List.



RATCHET REPAIR KITS

For numbers: 1597, 4254, 5297, 5297 L, S 57, SV 25, T 57, V 25

Kit Contents—gear, pawl, ball, spring, shift lever with washer & screw, two plate screws.

for numbers: 677, T 37 above parts plus one screw and spring for flex joint.

FLEX HANDLE REPAIR KITS

For numbers: 652, 653, 653 L, 1553, S 30, SV 26, T 30, V 26

Kit Contents—head, screw, washer.
for number: 4288.

Parts: head kit (screw, washer).

UNIVERSAL JOINTS REPAIR PARTS

For numbers: 709, 1509, 4295, MTF series ST 3, STU series T 3, TU series

Kit Contents—2 screws, 2 washers.

Parts—Male End, Centre Block, Female End.

REGULAR HEX AND PHILIPS HEAD SOCKETS

for numbers: 734, DW 12 L, 16 L, 18 L, 206, MTW 4, MTW 5, MTW 6, MTW 8, MTW 10, TP 1, TP 2, TP 3, TP 4, TW 4, TW 5, TW 6, TW 7, TW 8, TW 10, TW 12, V 34

Kit Contents—Bit, Screw.

ADJUSTABLE WRENCHES

for numbers: BW 4, BW 6, BW 8, BW 10, BW 12, BW 15, BW 18 and AC 124
ML 6, ML 8, ML 10, ML 12

Kit Contents—pin, knurl, spring.

Parts—jaws ordered separately as per size.

PULLERS

Parts—Body, Centre Screws, Links, nuts & bolts, misc.

TORQUE WRENCHES

Return to Gray warehouses for repairs.

HAMMER HANDLES

Handle No.	Hammer No.	Handle No.	Hammer No.
HH 1	15 G, 212 K, 312 K	HH 11	2 A, 33, 191, 199
HH 2	15 F, 2121, 212 J, 3121, 312 J, PH 22, PH 23, PH 24, PH 25, PH 26	HH 11A	91, 391
HH 3	15 C, 17 A, 17 B, 19 A, 19 B, 212 G, 212 H, 312 G, 312 H, PH 32	HH 12	124, 220, 224
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HH 5	212 C, 312 C	HH 15	PH 15
HH 6	212 A, 312 A	HH 16	PH 20
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Since 1912

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